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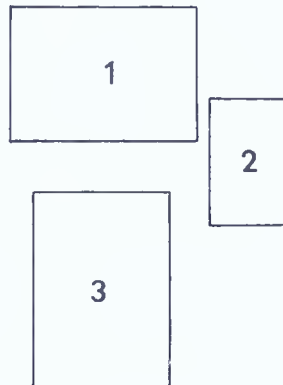
DIRECTORY OF THE NONFUEL-MINERAL PRODUCERS IN PENNSYLVANIA



Samuel W. Berkheiser, Jr.
John H. Barnes
Robert C. Smith, II

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
OFFICE OF RESOURCES MANAGEMENT
BUREAU OF
TOPOGRAPHIC AND GEOLOGIC SURVEY
Arthur A. Socolow, State Geologist

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2. Arthur A. Long loads a "gute bushel" of burnt lime (1982) from his restored batch-kiln in Northumberland County, symbolizing both Pennsylvania's mineral heritage and the people who extracted these resources, making Pennsylvania a leading mineral-producing state.

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by Samuel W. Berkheiser, Jr., John H. Barnes,
and Robert C. Smith, II
Pennsylvania Geological Survey

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PREFACE

In this directory, we have attempted to list all nonfuel-mineral producers in the Commonwealth. The data presented should be of value to both the consumers and producers of Pennsylvania's mineral products, as well as to the related service industries.

The inclusion of producing geologic formations and rock types for each operation should be of particular interest to geologists, architects, engineers, and land use planners. The resources identified in most counties of the Commonwealth should be recognized as valuable assets. Appropriate land use planning will permit maximum future benefit of

these assets. With careful planning, such resources can serve future generations with economical, quality mineral products, and their extraction should have little or no adverse environmental impact.

Periodic revision of this publication is anticipated. To make it as useful as possible, we encourage producers to report any additions, deletions, changes, or errors, which are inevitable in this type of compilation. A blank questionnaire is located in the back of the book. We would appreciate any up-to-date information or suggestions that might make this directory more useful.

In 1692, Frame made an attempt to describe Pennsylvania's potential mineral resources in the following words:

*“...The Riches of this Land it is not known,
What in the after Ages may be shown;
My words are true, for here was lately found
Some precious Mettle under-neath the Ground,
The which some men did think was Silver Oar,
Others said Copper, but some think 'tis more.
They say there is a vein of Lead or Tin,
Where choicer Mettle lodgeth further in;
So divers men have divers judgments spent,
And so the matter lies in Argument.
If men would venture for to dig below,
They might get well by it, for ought I know.
Those Treasures in the Earth which hidden be,
They will be good, whoever lives to see.
A certain place here is, where some begun
To try some Mettle, and have made it run,
Wherein was Iron absolutely found,
At once was known about some Forty Pound....”*

R. Frame, 1692
Quoted in Myers (1912)

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(in pocket)

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by

Samuel W. Berkheiser, Jr., John H. Barnes,
and Robert C. Smith, II

INTRODUCTION

Pennsylvania has traditionally held a high national ranking with respect to nonfuel-mineral production. Prior to 1900, the Commonwealth annually produced about half of the total mineral wealth of the United States (Pennsylvania Bureau of Statistics and others, 1944). Pennsylvania's minerals, and the people who extracted and processed them, helped win and maintain our freedom in the Revolutionary War and the two World Wars. They have provided construction materials for homes and industry as well as products to improve agricultural production and raw materials for manufactured products, thus improving our nation's standard of living. There is an old adage in the mining fraternity, "If it doesn't grow, it's mined." Pennsylvania is unique in that early development and industrialization were promoted by the rich abundance of naturally occurring mineral resources. This, combined with developing transportation networks and harbors, helped provide a sound foundation for our country's world status.

Statistics on nonfuel-mineral production indicate that for the last six years Pennsylvania has produced an average of greater than \$600 million worth of mineral products annually (Figure 1). Data for 1983 show that more than 80 percent of that value is accounted for by portland cement, crushed stone, and lime (Figure 2). On a tonnage basis, carbonate rocks (limestone and dolomite) represent about 80 percent of all nonfuel rocks currently mined in Pennsylvania, or about 75 million short tons.

For every man, woman, and child living in the Commonwealth, about \$50 worth, or about 8 tons, of nonfuel minerals was produced in 1983. Put

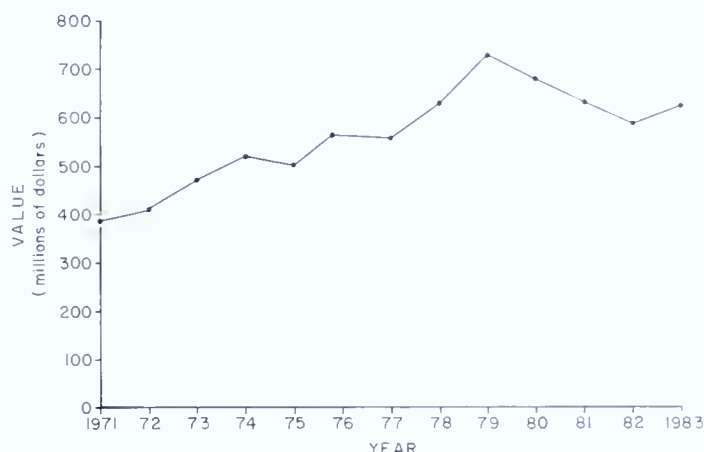
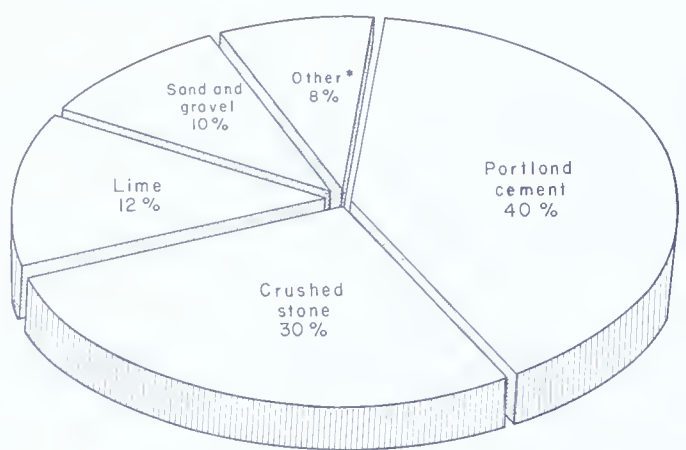


Figure 1. Value of Pennsylvania's recent nonfuel-mineral production. Compiled from U.S. Bureau of Mines Minerals Yearbooks (Cooper, 1974; Kebblish, 1977, 1979, 1981, 1984; and Kebblish and Tuchman, 1983).

another way, about \$14,000 of production of nonfuel minerals per square mile was achieved.

Pennsylvanians should be proud of their mineral heritage and the people engaged in extracting its resources. Production of crushed stone provides economical and safe material to build and repair the Commonwealth's highway system. Portland cement is a basic construction material needed for continued growth. Lime produced in Pennsylvania is used mostly in the production of steel, a major heavy industry of the region. Pennsylvania's agriculture industry owes much of its success to the availability of economical, high-quality pulverized limestone. These mineral industries provide both skilled and nonskilled jobs for our labor force.



* Includes abrasives, clays, gem stones, dimension stone, masonry cement, and sericite

Figure 2. Relative value of Pennsylvania's major nonfuel-mineral commodities. Data calculated from Prosser (1984).

PURPOSE

The primary objective of this report is to provide an up-to-date listing of Pennsylvania's nonfuel-mineral producers so that individuals searching for a specific product can readily identify appropriate sources. Thus, the listing of producers in Part 1 is by commodity and rock type, and there is an additional breakdown by county. Plate 1 supplements this information by showing the locations of individual operators producing specific products.

The indication of producing formations and rock types in Part 1 further characterizes the physical and chemical properties of the mineral products and identifies additional potential resources. These potential resources, as well as those currently in production, are a valuable asset to the Commonwealth and should be considered in future land use planning. Selected references have been included as an aid to obtaining additional information. Every attempt has been made to insure that this report is as accurate as possible, although, as in any report dependent on information provided by hundreds of individuals, errors are possible.

SCOPE

This directory is restricted to producers of nonfuel minerals, such as clay, limestone, sandstone, and slate. Information compiled in this report was obtained primarily from a questionnaire sent to active producers of record who held mining and

reclamation permits from the Pennsylvania Department of Environmental Resources as of January 1984. Information for approximately 140 additional operations was compiled from U.S. Bureau of Mines data, *Bulletin 14* of the Pennsylvania Department of Transportation (1984), and trade directories.

There are presently no active metal mines in Pennsylvania. Mineral Resource Report 50, Part 3, *Metal Mines and Occurrences in Pennsylvania* (Rose, 1970), provides a summary of past activity and significant prospects.

A directory of both anthracite and bituminous coal-mine operators is available as the *Annual Report of Mining Activities* (Pennsylvania Department of Environmental Resources, 1983).

Presently there is no known directory of oil and gas producers for Pennsylvania. However, the Department of Environmental Resources, Bureau of Oil and Gas Management, can provide a list of oil and gas permits. This, coupled with the Bureau of Topographic and Geologic Survey's annual Progress Report, *Oil and Gas Developments in Pennsylvania* (Harper and others, 1982), can provide an overview of hydrocarbon production and developments in the Commonwealth.

ACKNOWLEDGEMENTS

The authors gratefully acknowledge the cooperation of the Bureau of Mining and Reclamation of the Department of Environmental Resources in obtaining names and addresses of the licensed active nonfuel-mineral producers, and are particularly indebted to the staff members of their district offices in Ebensburg, Greensburg, Knox, Philipsburg, and Pottsville. The U.S. Bureau of Mines is a source and compiler of valuable commodity and producer information which was used for cross-referencing and editing these data.

As with most projects of this nature, a team effort was involved. The authors wish to thank Dr. Arthur A. Socolow, State Geologist, Pennsylvania Geological Survey, for supporting the project and helping to determine the ultimate format. Mr. David S. Miller, Geologic Intern, and Ms. Kelly L. Kinkaid, Geologic Aide, assisted in determining the locations and the producing formations for each operation. Their dedication and thoroughness is greatly appreciated. Other staff members who were particularly helpful in providing site-specific information during this compilation include Thomas M.

Berg, Albert D. Glover, Donald M. Hoskins, Jon D. Inners, and James G. Phillips. Dick Howe, Pennsylvania Department of Transportation, helped to determine the location and material mined for about 30 operations listed in *Bulletin 14* (Pennsylvania Department of Transportation, 1984).

Finally, the cooperation of the mineral producers in providing information about their operations is a key to the success of this effort.

EXPLANATION

Producer Listing and Map Numbers

Part 1 is a list of producers arranged by commodity, rock type, county, and map number. This section is *commodity-oriented*, based on the assumption that most users will be looking for a particular product within a given geographic area. Part 2, a general index, can be used to look for information by (1) specific mineral producer, (2) county, (3) formation name and rock type, and (4) more detailed and specialized commodity categories than those listed in Part 1.

There are about 700 individual mineral producers of record in the Commonwealth mining materials from approximately 875 sites. For lime and cement, the authors have also listed the few known manufacturers who do not control a captive mining operation. Forty-one mineral producers have requested not to be listed. Nineteen of these unlisted companies are borrow-and-fill operators, 13 are construction-aggregate operators, seven are producing undetermined mineral commodities, and one is producing dimension stone.

The producer map numbers listed in Part 1 refer to Plate 1. These locations were originally determined from 7½-minute topographic quadrangle maps (scale 1:24,000). Map numbers were generally assigned in the order of the first appearance of an operation in Part 1 (alphabetical commodity list). Some late additions had to be entered out of sequence. Some operators have more than one mine supplying similar raw materials to a single plant. Hence, in rare instances, several mines may have the same map number.

To assist the user, commodity codes are appended to the map numbers on Plate 1. These correspond to the commodity headings found in Part 1. Some operators produce more than one commodity. The fastest way to locate a particular opera-

tion on Plate 1 is to search for its unique map number in the appropriate county. The easiest method to identify the company associated with a map number on Plate 1 is to look for that number under the appropriate commodity and county in Part 1.

Geology

The producing formations and rock types were determined from the best available published geologic maps. For areas for which no detailed geologic mapping exists, the geology was determined from the Pennsylvania Survey's Map 61, *Atlas of Preliminary Geologic Quadrangle Maps of Pennsylvania* (Berg and Dodge, 1981). If a source other than Map 61 was used, it is noted in the "Comments" section of Part 1, as are other published references to that operation. Field verification of these data was not undertaken.

Commodities

There are 17 commodity headings for Pennsylvania's nonfuel-mineral producers (Table 1). More specific commodity subgroupings can be found in Part 2, the general index. Figures 3 through 11 in Part 1 show the locations of selected mineral industries.

Every attempt was made to report factual and accurate information. Most data contained in this report are based on information supplied by the individual mineral producers. The authors have attempted to cross-reference these data for consistency with information compiled by the Pennsylvania Department of Transportation (PennDOT) and the U.S. Bureau of Mines wherever possible. This edition of Information Circular 54 is not intended as a listing of approved vendors for any commodity. The consumer should contact the appropriate licensing, regulatory, or trade organization (such as PennDOT, the Pennsylvania Department of Agriculture, or ASTM) for such information.

Any construction aggregate that is designated as an "approved" coarse or fine aggregate in this report has met the physical and chemical requirements set forth by PennDOT in *Bulletin 14, Aggregate Producers and Roadway Specifications (Form 408)* as of March 1984 for at least one of the 10 PennDOT coarse-aggregate designations or at least one of the four fine-aggregate designations.

Table 1. *Explanation of Commodity Groupings*

Major commodity heading	Sources and uses
ABRASIVES	Silica sand for rubbing, grinding, and polishing.
AGRICULTURAL MINERALS	Pulverized limestone (calcium-rich), dolomite (magnesium-rich), and peat as soil additives; limestone and dolomite as poultry grit; clays as insecticide carriers and animal feeds.
BORROW AND GENERAL FILL	Clay, coal refuse, sandstone, shale, shaly limestone, sand and gravel, and slag used for construction fill, low-traffic-volume roads, and driveways. Coal refuse (unspecified coal waste and bottom ash) also includes man-made cinders (carbon, slag, or scale), coke ash and/or breeze (fine screenings from coke), gob (coal refuse left on the mine floor), and red dog (burnt reddish-colored coal-mine waste) used mainly for borrow and fill and antiskid materials.
BRICKS (CONSTRUCTION)	Clay and shale used for building, facing, flooring, and paving bricks.
CEMENT RAW MATERIALS	Cementaceous slag, clay and shale, high-calcium limestone, sandstone, and shaly limestone used for raw cement (clinker) production.
COAL-MINE ROCK DUST	Generally a light-colored, low-silica, pulverized carbonate rock sprayed on the interior of underground coal mines to help reduce combustibility.
CONSTRUCTION AGGREGATE	Coarsely or finely crushed and/or screened rock aggregate generally made from unweathered argillite, diabase, dolomite, gneiss, gravel, limestone, quartzite, sand and gravel, sandstone, serpentinite, and slag, used for construction purposes.
DIMENSION STONE	Argillite, diabase, gneiss, limestone, quartzite, sandstone, schist, and slate cut, shaped, or selected for use in blocks, slabs, sheets, or other specified shapes and sizes. Slate includes specialty items such as billiard table tops, blackboards, electrical boards, insulators, roofing, and structural products.
FILLERS	Argillite, clay, dolomite, limestone, metabasalt, phyllite, sandstone, shale, and slag used generally as inert extenders and diluents. Includes specialty items such as carbonate whiting, kaolinitic clays, and sericite.
FLUXSTONE	High-purity limestone and dolomite used by the steel, metals, and glass industries to purify the products and reduce melting temperatures.
HIGH-CALCIUM LIMESTONE	Generally a limestone having a CaCO_3 content of 90 percent or more that can be used for abrasives, neutralizing acid, agricultural material, source of CaCO_3 for cement manufacture, coal-mine rock dust, filler, fluxstone, lime, and whiting.
HIGH-MAGNESIUM DOLOMITE	Generally a dolomite having a MgCO_3 content of 40 percent or more that can be used for agricultural material, neutralizing acid, coal-mine rock dust, filler, fluxstone, lime, refractory product, and whiting.
LIME	Calcined (roasted) high-purity limestones and dolomites. Generally used for fluxing steels, metals, and glass; water and sewage treatment; neutralizing acid; chemical manufacture; paper manufacture; and building products and ceramics.

Table 1. *(Continued)*

Major commodity heading	Sources and uses
RAILROAD BALLAST	Argillite, diabase, dolomite, gneiss, limestone, sandstone, and serpentinite used as a graded track bed.
REFRACTORIES	Clay, dolomite, quartzite, sandstone, and shale used as a protective coating or brick where high temperatures are encountered, such as in the manufacture of metals, glass, and coke.
ROOFING MATERIALS	Gravel, metabasalt, slag, and slate used as coated or uncoated granules for a top dressing to asphaltic and fiberglass roofing materials. Includes roofing slate.
SPECIALTY SANDS	Usually silica sand used for abrasives, chemical, enamel, engine (traction), filtration, fire, foundry and molding, glass, golf course trap, grinding and polishing, high-purity silica, refractory, sandblasting, setting (brick manufacture), petroleum well proppant, and pottery sands.

Any antiskid producer listed meets one of PennDOT's eight "approved" types for use on ice- or snow-covered pavement surfaces. The designation "Approved coarse aggregate, Type C" generally restricts that material to use in subbases only. The PennDOT-derived SRL (Skid Resistance Level) designation refers to the skid resistance value, or coefficient of friction, of the aggregate under various traffic volumes, usually associated with bituminous mixtures. PennDOT has implemented a five-fold classification of these values from Low (SRL L) through Medium (M), Good (G), and High (H) to Excellent (SRL E). Aggregates classified SRL L generally are high-purity limestones that have high polishing values, and are restricted in use to bituminous surfaces having average daily traffic counts of 1,000 or less. At the other extreme, aggregates classified SRL E are generally clean quartzites and gravels that have low polishing values, and

can be used on surfaces having average daily traffic counts of 20,000 or more.

Aggregates that have not been tested or have not met PennDOT specifications are listed simply as "coarse aggregate" or "fine aggregate." Many of the producers of these aggregates have bank-run operations, meaning that material is sold as mined, without sizing or crushing.

Conrail has devised a four-fold railroad-ballast classification from the highest quality to the lowest quality, represented by classes A through D. However, the company does not maintain a publicly available approved source list for this classification scheme. Hence, railroad-ballast producers listed in this report were determined by producer response only and without regard to "class."

Table 2 is a list of the abbreviations used in Part 1.

Table 2. *Explanation of Abbreviations Used in Part 1*

agg	aggregate	hfls	hornfels
agr	agricultural	ls	limestone
anal	analysis(es)	Mbr	Member
argt	argillite	mfg	manufacturing
Anon	Anonymous	Mg	magnesium
apprvd	approved	mi	mile(s)
brn	brown	Mt	Mountain
Ca	calcium	ovb	overburden
cgl	conglomerate	Pgh	Pittsburgh
cnst	construction	pulv	pulverized
Co	Company	qzt	quartzite
d/b/a	doing business as	qu	quarry(ies)
desc	description	rndm	random
dol	dolomite	sh	shale
Fe	iron	sltst	siltstone
Fm	Formation	SRL	Skid Resistance Level
ft	feet	ss	sandstone
furn	furnace	Twp	Township
geol	geological	undif	undifferentiated
Gp	Group	Wisc	Wisconsinan
gwke	graywacke		

PART 1

Producer Listing by Commodity,
Rock Type, and County

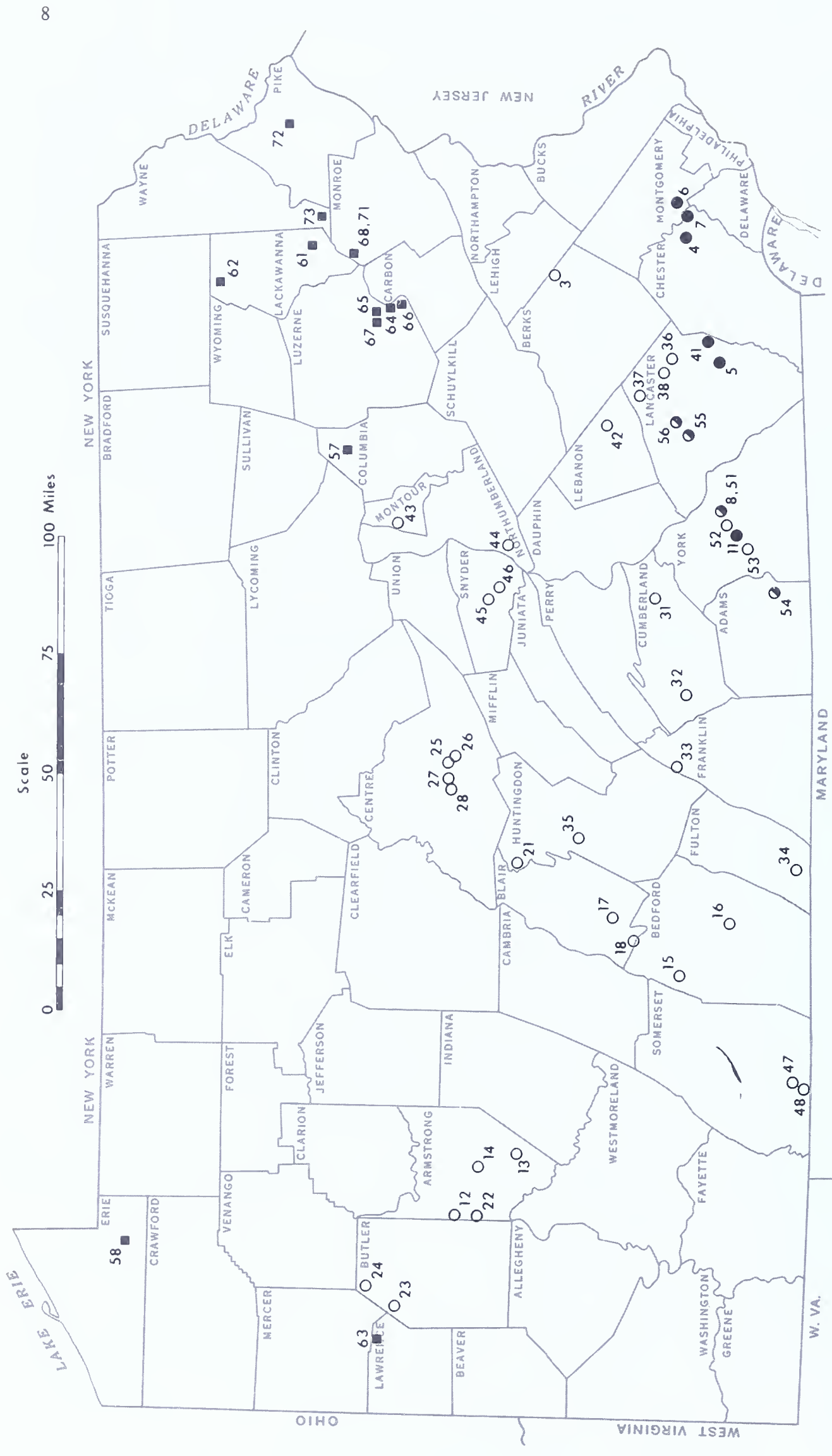


Figure 3. Locations of some agricultural minerals mined in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
ABRASIVES						
SANDSTONE						
Huntingdon County						
1	Pennsylvania Glass Sand Corp. P. O. Box 187 Berkeley Springs, WV 25411	Office (304) 258-2500 Site (814) 542-2561	Quarry Keystone	Ridgeley sandstone	Abrasive sand Sandblasting sand Grinding and polishing sand Engine sand Glass sand	Mines the "Oriskany" sand- stone.
AGRICULTURAL MINERALS						
CLAY-SHALE						
Lancaster County						
2	Narvon Products Corporation P. O. Box 58 Narvon, PA 17555	Office (717) 354-4941	Open pit Narvon mines	Chickies kaolinitic clay	Animal feed Pesticide carrier Cement raw materials Fillers Refractory clays	Mines a siliceous, kaolinitic and mica-rich white clay. See Hosterman (1984) for a brief description and chem- ical analysis.
DOLOMITE						
Berks County						
3	Eastern Industries, Inc. R. D. 1, Box 459 Kutztown, PA 19530	Office (215) 395-5811 Site (215) 683-7400	Quarry Kutztown	Allentown dolomite	Pulverized dolomite for agr Construction aggregate	See Miller (1934) for a description and analysis of the abandoned Topton Furnace quarry located 0.5 mile NW in the Stonehenge Formation.
Chester County						
4	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 647-4094	Quarry Catanach	Ledger dolomite	Pulverized dolomite for agr Fluxstone Construction aggregate	
Lancaster County						
5	Compass Quarries, Inc. 47 McIlvaine Road Paradise, PA 17562	Office (717) 442-4191	Quarry	Vintage dolomite	Pulverized dolomite for agr Construction aggregate Fillers and extenders High-magnesium dolomite	See Miller (1934) under "Bellemont Quarries" for description and chemical analysis.

AGRICULTURAL MINERALS
DOLOMITE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
AGRICULTURAL MINERALS (cont.)						
DOLOMITE (cont.)						
Lancaster County (cont.)						
41	Martin Limestone, Inc. (New Enterprise Stone and Lime Co.) P. O. Box 550 Blue Ball, PA 17506	Office (717) 354-4125 Site (717) 442-4148	Quarry Limeville	Ledger dolomite	Pulverized dolomite for agr High-magnesium dolomite	
Montgomery County						
6	Corson Lime Company Joshua Rd. and Stenton Ave. Plymouth Meeting, PA 19462	Office (800) 433-8852 Site (215) 828-4300	Quarries	do.	Pulverized dolomite for agr	See O'Neill (1964) for analysis.
7	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 279-6840	Quarry McCoy	do.	Pulverized dolomite for agr Fluxstone Construction aggregate High-magnesium dolomite	See Miller (1934) for geo- logical description and chem- ical analysis.
York County						
8	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 2	do.	Pulverized dolomite for agr	Selectively mined.
11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	do.	Pulverized dolomite for agr Refractory products Construction aggregate Fillers Coal-mine rock dust	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.
LIMESTONE						
Armstrong County						
12	M & M Lime Company R. D. 1 Worthington, PA 16262	Office (412) 297-3958	Underground and stripping	Vanport limestone	Pulverized limestone for agr Construction aggregate	See O'Neill (1964, 1974) for general geologic description.
13	Manor Minerals, Inc. 265 South Jefferson Street Kittanning, PA 16201	Office (412) 548-5195 Site (412) 354-3770	Quarry Mawrey & G. Girty	do.	do.	
14	do.	Office (412) 548-5195	Quarry Garretts Run	do.	Pulverized limestone for agr Apprvd antiskid	See O'Neill (1974) for esti- mated thickness.

AGRICULTURAL MINERALS
LIMESTONE

11

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
AGRICULTURAL MINERALS (cont.)						
LIMESTONE (cont.)						
Bedford County						
15	Bedford County Stone and Lime, Inc. R. D. 1 New Paris, PA 15554	Office (814) 839-2249	Quarry	Keyser limestone	Pulverized limestone for agr Construction aggregate	Also see "Construction Aggregate."
16	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 652-5121	Quarry Ashcom	Nealmont(?) limestone Linden Hall(?) limestone	do.	Also see "Construction Aggregate" and "Coal-Mine Rock Dust."
Blair County						
17	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 224-2121	Quarry Roaring Spring	Axemann limestone	do.	Selectively mines the Axemann Fm. for pulverized limestone. Also see "Construction Aggregate."
18	Sproul Lime and Stone Company R. D. 1, Box 591 Claysburg, PA 16625	Office (814) 239-2772	Quarry Sproul	Keyser limestone	Pulverized limestone for agr	See O'Neill (1964) for chemical analysis.
Blair and Huntingdon Counties						
21	Narehood Limestone Company (New Enterprise Stone and Lime Co.) P. O. Box C Tyrone, PA 16686	Office (814) 766-2211 Site (814) 684-2570	Quarry	Coburn limestone Beliefonte dolomite	Pulverized limestone for agr Construction aggregate	Selectively mines up to eight formations in the quarry. Agricultural limestone is from the Linden Hall(?) Formation. See Rones (1969).
Butler County						
22	Winfield Lime and Stone Co., Inc. R. D. 2 Cabot, PA 16023	Office (412) 352-2640	Underground mine Winfield	Vanport limestone	do.	
23	Allegheny Mineral Corporation (Snyder Associated Companies) P. O. Box 10 Kittanning, PA 16201	Office (412) 548-8101 Plant (412) 794-6911	Quarry Slippery Rock	do.	Pulverized limestone for agr Construction aggregate High-calcium limestone Fluxstone Coal-mine rock dust	
24	do.	Office (412) 548-8101 Plant (412) 735-2088	Quarry Harrisville	do.	do.	See O'Neill (1976) for analysis and thickness.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>AGRICULTURAL MINERALS (cont.)</u>						
LIMESTONE (cont.)						
Centre County						
25	Marblehead Lime Company P. O. Box 89 Belleville, PA 16823	Plant (814) 359-2773	Quarry and underground Pleasant Gap	Linden Hall limestone	Pulverized limestone for agr High-calcium quicklime High-calcium hydrate lime	Top of the Linden Hall Formation; contains high- calcium Valentine Member. See O'Neill (1964).
26	Warner Company P. O. Box 448 Belleville, PA 16823	Office (215) 667-9700 Plant (814) 359-2313	Quarry Gentzel	do.	Pulverized limestone for agr Fluxstone High-calcium quicklime High-calcium limestone	Mining the Valentine Member.
27	do.	Office (215) 667-9700 Site (814) 355-4761	Underground mine Bell	do.	Pulverized limestone for agr High-calcium quicklime High-calcium hydrate lime Fluxstone Coal-mine rock dust	Mining the Valentine Member. See Berkeiser (1985). Also see "Gentzel quarry."
28	Con Lime, Inc. P. O. Box 118 Belleville, PA 16823	Office (814) 355-4744	Underground mine	do.	Pulverized limestone for agr Poultry grit High-calcium limestone High-calcium quicklime Coal-mine rock dust	Mining the Valentine Member. Formerly owned by Domtar. Miller (1934) summarized the geology of the Nittany Valley and the Valentine limestone.
Cumberland County						
31	Locust Point Quarries, Inc. P. O. Box 1280 Mechanicsburg, PA 17055	Site (717) 766-9631	Quarry Locust Point	Rockdale Run limestone	Pulverized limestone for agr Construction aggregate	See Root (1978) for geology and chemical analysis.
32	Valley Quarries, Inc. (New Enterprise Stone and Lime Co.) 3587 Stone Quarry Road Chambersburg, PA 17201	Office (717) 264-4178 Site (717) 532-2312	Quarry Shippensburg	Stonehenge limestone Rockdale Run limestone and dol	do.	See O'Neill (1964) for analysis.
Franklin County						
33	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (717) 349-2412	Quarry Dry Run	Chambersburg limestone	do.	See "Construction Aggregate."
Fulton County						
34	H. B. Mellott Estate, Inc. 328 North Second Street McConnellsburg, PA 17233	Office (717) 485-3171 Site (717) 294-3281	Quarry Charlton	Keyser limestone	do.	Also mines the Tonoloway and Ridgeley. See "Construction Aggregate," "Limestone," and "Sandstone."

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
AGRICULTURAL MINERALS (cont.)						
LIMESTONE (cont.)						
Huntingdon County						
35	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 627-1670	Quarry McConnellstown	Keyser limestone Tonoloway limestone	Pulverized limestone for agr Construction aggregate	
Lancaster County						
36	Martin Limestone, Inc. (New Enterprise Stone and Lime Co.) P. O. Box 550 Blue Ball, PA 17506	Office (717) 354-4125 Site (717) 354-4125	Quarry Weaverland	Buffalo Springs limestone and dol Stonehenge limestone	Pulverized limestone for agr High-magnesium pulv dolomite Construction aggregate	Probably selectively mining the Stonehenge Fm. See O'Neill (1964) for analyses. Guarantees 88.2% total car- bonates for high-calcium ls.
37	Lancaster Lime and Stone Corp. (Eastern Industries, Inc.) P. O. Box 30 930 Pointview Avenue Ephrata, PA 17522	Plant (215) 267-2864	Quarry Schoeneck	Annaville limestone	Pulverized limestone for agr Construction aggregate	Selectively mines the Myers- town and Ontelaunee for construction materials and the Annville for high-calcium products.
38	David M. Burkholder, Inc. (New Enterprise Stone and Lime Co.) R. D. 3 Ephrata, PA 17522	Office (717) 354-4306	Quarry Hinkletown	do.	Pulverized limestone for agr Fluxstone Filler High-calcium limestone	Selectively mines the Ann- ville for high-calcium pro- ducts and the Epler dolomite for construction aggregate.
Lebanon County						
42	Calcite Quarry Division Corson Lime Company P. O. Box 629 201 Prescott Road Lebanon, PA 17042	Office (717) 273-3754	Quarry	Annaville limestone Ontelaunee dolomite	Pulverized limestone for agr Fluxstone High-calcium limestone Construction aggregate	See Gray and others (1958) for geology, O'Neill (1976) for analysis, and Gray (1952) for structural details of this quarry.
Montour County						
43	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 437-2041	Quarry Milton	Keyser limestone Tonoloway limestone	Pulverized limestone for agr Construction aggregate	Keyser and Tonoloway are undivided. See Way (in press) for geology.

AGRICULTURAL MINERALS
LIMESTONE

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
			Name operation	Lithology		
<u>AGRICULTURAL MINERALS (cont.)</u>						
LIMESTONE (cont.)						
Northumberland County						
44	Meckley's Limestone Products, Inc. R. D. 1 Herndon, PA 17830	Site (717) 758-3001	Quarry Mandata	Keyser limestone	Pulverized limestone for agr Fillers Construction aggregate	See Fail (1973) and Hoskins (1976) for description, geology, and analyses. Operator custom blends and grinds.
Snyder County						
45	National Limestone Quarry, Inc. Box 397 Middleburg, PA 17842	Site (717) 837-1635	Quarry Paxtonville	do.	Pulverized limestone for agr Construction aggregate Fillers	See O'Neill (1964) for analyses.
46	do.	Office (717) 837-1635	Quarry Mt. Pleasant Mills	do.	Pulverized limestone for agr Poultry grit Construction aggregate	
Somerset County						
47	Keystone Lime Company, Inc. Springs, PA 15562	Office (814) 662-2711	Underground mine Peck	Wymps Gap limestone	Pulverized limestone for agr	Worked for three months of the year in winter. See Flint (1965) for geology and measured section.
48	do.	Office (814) 662-2711	Quarry Eichorn	Deer Valley limestone	do.	Also selectively mines the Loyalhanna for construction aggregate at this site.
York County						
51	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 1	Kinzers limestone	do.	Selectively mined.
52	Westgate Quarry Roosevelt Ave. and Fahs St. York, PA 17405	Office (717) 843-0981	Quarry Westgate	do.	Kiln dust from cement mfg.	Recently purchased from Medusa Cement. Inactive. See O'Neill (1964) for chemi- cal analysis and Stose and Jonas (1939) for geol. desc.
53	Thomasville Stone and Lime Company (Medusa Aggregates Company) P. O. Box 23 Thomasville, PA 17364	Office (800) 521-8299 Site (717) 792-2631	Underground	do.	Pulverized limestone for agr Fillers and extenders Whiting Cement and glass manufacture Fluxstone	See Cloos (1968) for geologic description of the quarry, O'Neill (1964) for analysis, and Berkheliser (1983) for whiting producers.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
AGRICULTURAL MINERALS (cont.)						
LIMESTONE AND DOLOMITE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers limestone Ledger dolomite	Pulverized ls and dol for agr Fluxstone High-calcium quicklime Construction aggregate High-Ca ls and high-Mg dol	Selectively mines a geologic- ally complex setting. See Berkheiser (1983) for analy- sis and Hole (1968) for description and analyses.
Lancaster County						
55	Binkley and Ober, Inc. P. O. Box 7 East Petersburg, PA 17520	Site (717) 569-0441	Quarry Binkley and Ober	Buffalo Springs limestone and dol	Pulverized carbonate for agr Construction aggregate	See O'Neill (1964) for chem- ical analysis and Miller (1934) for geologic descrip- tion.
56	Rohrer's Quarry, Inc. 16 Lititz Road Lititz, PA 17543	Office (717) 626-8541	Quarry Rohrer's	Epler limestone and dol	do.	See O'Neill (1964) for analysis.
PEAT						
Columbia County						
57	Benton Peat Products (Robert Vincent Company) Benton, PA 17814	Office (717) 925-6121	Peat bog	Quaternary peat	Peat	See Cameron (1970) for a general description of peat deposits in northeastern Pennsylvania. Possible intermittent production.
Erie County						
58	Corry Peat Products Company 515 Turnpike Road Corry, PA 16407	Office (814) 665-7101	Peat bog Corry	do.	do.	
Lackawanna County						
61	North Pocono Peat and Humus (Davailus Enterprises) R. D. 1 Gouldsboro, PA 18424	Office (717) 842-2870	Peat bog	do.	do.	See Cameron (1970) for a general description of peat deposits in northeastern Pennsylvania. Headwaters of tributary to Meadow Brook.
62	Lake Benton Peat Moss Company, Inc. R. D. 1 Dalton, PA 18414	Office (717) 344-6558 Site (717) 563-1777	do.	do.	do.	See Cameron (1970) for a general description of peat deposits in northeastern Pennsylvania. Peat bog is a tributary to Tunkhannock Ck.

AGRICULTURAL MINERALS
PEAT

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>AGRICULTURAL MINERALS (cont.)</u>						
PEAT (cont.)						
Lawrence County						
63	D. M. Boyd Company 226 Francis Street New Wilmington, PA 16142	Office (412) 946-8438	Peat bog Boyd	Quaternary peat	Peat	
Luzerne County						
64	Floyd C. Hoffman R. D. 1 White Haven, PA 18661	Site (717) 443-8444	Stripping Floyd Hoffman	do.	Unprocessed peat	See Cameron (1970) and Edgerton (1969).
65	Pennsylvania Peat Moss, Inc. 21st and Laurel Streets Hazleton, PA 18201	Office (717) 455-4331 Site (717) 443-9430	Stripping White Haven plant	do.	Bulk reed-sedge peat	do.
66	Blue Ridge Industries, Ltd. R. D. 2, Box 128 White Haven, PA 18661	Office (717) 455-4394	Peat bog Hawks	do.	Peat	do.
67	International Peat, Inc. P. O. Box 71 White Haven, PA 18661	Office (717) 459-5433 Site (717) 443-8166	Peat bog White Haven	do.	do.	See Cameron (1970) and Edgerton (1969). Location of bog uncertain.
Monroe County						
68	Old Fort Industries, Inc. 2018 South Anthony Boulevard Fort Wayne, IN 46803	Office (219) 422-6511	Peat bog	do.	do.	See Cameron (1970).
71	Anderson Organic Star Route Thornhurst, PA 18424	Office (717) 646-8872	do.	do.	do.	Noncommercial. See Cameron (1970) for a general descrip- tion of peat deposits in northeastern Pennsylvania.
Pike County						
72	Valiant Enterprises, Inc. P. O. Box 656 Milford, PA 18337	Site (717) 775-7356	Peat bog Mud Pond	do.	do.	Located at southern end of Little Mud Pond Swamp. See Palmer and MacNamara (1972) for detailed description. Also see Edgerton (1969).

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>AGRICULTURAL MINERALS (cont.)</u>						
PEAT (cont.)						
Wayne County						
73	Gouldsboro-Wayne Peat Humus Company P. O. Box 68 Gouldsboro, PA 18424	Office (717) 842-8281	Open pit	Quaternary peat	Peat	Sevon (1975c) mapped area as boulder field and boulder colluvium, which is probably a very thin veneer over the peat bog. See Cameron (1970).
<u>BORROW AND GENERAL FILL</u>						
CHERT						
Mifflin County						
	74 John H. Goss R. D. 5, Box 301D Lewistown, PA 17044	Office (717) 543-5234	do.	Ridgeley chert (weathered)	Borrow and general fill	See Conlin and Hoskins (1962) for geology. "Old Port" Formation.
CLAY						
Adams County						
	76 Wilson Clapsaddle Sand Quarry 1790 Baltimore Pike Gettysburg, PA 17325	Office (717) 334-1344	do.	York Haven diabase (clay)	Borrow and general fill Fine aggregate Topsoil	Mines weathered residuum. Also see "Construction Aggregate."
Crawford County						
	81 Frank Stewart R. D. 2, Box 450 Meadville, PA 16335	Office (814) 724-2539	do.	Quaternary clay and silt	Borrow and general fill	Noncommercial. Material is used as landfill cover. Mapped as undifferentiated stream alluvium (Shepps and others, 1959).
Lawrence County						
	77 James F. Hamilton R. D. 1 New Wilmington, PA 16142	Office (412) 946-2813	do.	Quaternary glacial clay	Borrow and general fill Coarse aggregate Fine aggregate Topsoil	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
Lycoming County						
	78 P Stone, Inc. P. O. Box 254 Jersey Shore, PA 17740	Office (717) 745-7144 Site (717) 745-7166	Quarry P Stone, Inc.	Loysburg clay residuum	Borrow and general fill	See Falll and others (1977a) for geology. Might have potential for landfill or lagoon liner.

BORROW AND GENERAL FILL
COAL REFUSE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
COAL REFUSE						
Fayette County						
75	Sinter Fuel Corporation 5530 Hobart Street Pittsburgh, PA 15217	Office (412) 437-3939	Cinder dump Leith	Man-made coal cinders	Borrow and general fill	
403	E & N Land Company R. R. 1, Box 63 East Millsboro, PA 15433	Office (412) 245-8960	Reclamation Brier Hill	Man-made gob	do.	Coke breeze (screenings) and coal from gob pile.
406	Unknown		Mine dump	Man-made red dog	do.	Red-dog operation was previously controlled by Ed Jones and recently sold.
407	Yowonske Construction Company R. D. 3, Box 343A Belle Vernon, PA 15012	Office (412) 929-3698	Coke(?) waste dump	Man-made coke ash	do.	Red dog.
408	P A Enterprises P. O. Box 1279 Uniontown, PA 15401		Coke-ash dump Dukich	do.	do.	do.
Lackawanna County						
404	Lackawanna Cinder and Silt Company 1417 Sanderson Avenue Scranton, PA 18509	Office (717) 347-3623	Cinder bank Marvine	Man-made cinders	do.	Red cinders.
Schuylkill County						
405	Willis F. Helfrich R. D. 1, Box 98 Andreas, PA 18211	Office (717) 386-4393	Cinder bank	do.	do.	Cinders used for manufactur- ing blocks.
Washington County						
85	Johnson's Sales and Service, Inc. R. D. 6 Washington, PA 15301	Office (412) 222-5637	Dump Turkey Foot or J&L burned waste	Man-made	do.	Red dog.
411	Anthony J. Pawlosky R. D. 1 Hickory, PA 15340	Office (412) 745-8177	Dump Westland pile	Man-made red dog	do.	do.
412	BerardInelli Excavation R. D. 1, Box 381 Scenery Hill, PA 15360		Refuse pile Cokeburg	do.	do.	Red dog from the Pittsburgh seam.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
COAL REFUSE (cont.)						
Washington County (cont.)						
413	Lincoln Hill Reddog 2825 West Chestnut Street Washington, PA 15301	Office (412) 225-9610	Mine dump	Man-made red dog	Borrow and general fill	Red dog.
GNEISS AND RELATED ROCKS						
Berks County						
83	Gus Bales R. D. 1 Alburtis, PA 18011	Office (215) 845-2390	Open pit	Precambrian granitic gneiss	do.	Mining weathered granitic gneiss. See Buckwalter (1959) for geology.
Delaware County						
82	Pyramid Land Development Company 414 W. Knowlton Road Aston, PA 19063	Office (215) 494-8627 Site (215) 494-4722	Open pit Aston	Wissahickon schist	Borrow and general fill Rip-rap Landscape boulders	Some serpentinite possible. Oligoclase-mica schist is mapped as bedrock.
SAND AND GRAVEL						
Bradford County						
86	Raymond Bagley, Sr. R. D. 1, Box 229 Canton, PA 17724	Office (717) 673-5088	Open pit	Quaternary glacial gravel	Borrow and general fill	Appears to be outwash and possible kame deposits of Towanda Creek.
Crawford County						
87	Skidmore and Chah, Inc. Box 396 Ashtabula, OH 44004	Office (216) 998-1255	Open pit Thompson	do.	do.	Noncommercial. Mapped as kames, kame terraces, kame moraines, and eskers, undif- ferentiated (Shepps and others, 1959).
Erie County						
84	William M. Hyde R. D. 2 Albion, PA 16401	Office (814) 756-3741	Open pit	do.	do.	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
88	Nicholson Services 2808 Gloth Avenue Erie, PA 16504	Office (814) 459-2473	do.	do.	do.	Mapped as outwash, river ter- races, and lake deposits, undifferentiated (Shepps and others, 1959).

BORROW AND GENERAL FILL
SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SAND AND GRAVEL (cont.)						
Erie County (cont.)						
91	James A. Strand R. D. 4, Lay Road Edinboro, PA 16412	Office (814) 734-4277	Open pit	Quaternary glacial gravel	Borrow and general fill	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
Lackawanna County						
92	Burwin Atwell 194 Rock Street Pittston, PA 18640	Office (717) 655-3653 or (717) 654-9960	Open pit Moosic No. 1	do.	do.	Probable outwash gravel associated with the floodplain of the Lackawanna River.
Lawrence County						
93	Andrew and Mary LaPatka 211 W. Fairmont Avenue New Castle, PA 16105	Office (412) 654-2138	Open pit	do.	do.	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated Shepps and others (1959).
94	DePola Excavating 1 East Sheridan Avenue New Castle, PA 16105	Office (412) 652-8589	do.	do.	do.	do.
Luzerne County						
95	Bonomo Trucking Company 32 Pittston Avenue Yatesville, PA 18640	Office (717) 654-2698	do.	Quaternary glacial gravel Quaternary alluvium	Borrow and general fill Topsoil	Mining the floodplain of the Susquehanna River.
96	Wayne W. Knorr, Inc. 7295 Old Berwick Road Bloomsburg, PA 17815	Office (717) 759-0813	Open pit Salem Township	Quaternary glacial gravel	Borrow and general fill	Mapped as a Woodfordian kame terrace (Inners, 1978)
McKean County						
97	John Peter Casteili Box 96 East Smethport, PA 16730	Office (814) 887-5875	Open pit	Quaternary alluvium	Borrow and general fill Construction aggregate Topsoil	Mining alluvium on the floodplain of Potato Creek.

**BORROW AND GENERAL FILL
SAND AND GRAVEL**

21

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SAND AND GRAVEL (cont.)						
Mercer County						
98	Grove Contracting, Inc. R. D. 4 Grove City, PA 16127	Office (814) 786-7010	Open pit	Quaternary glacial gravel	Borrow and general fill	Noncommercial. Mapped as Kent end moraine (Shepps and others, 1959).
101	Leall Brothers Excavating, Inc. Box 445 Wheatland, PA 16161	Office (412) 981-2438	do.	do.	do.	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
Monroe County						
102	Darwin Keiper Excavating Rt. 940, S. R. 3 Pocono Lake, PA 18347	Office (717) 646-2614	do.	do.	do.	Mapped as Woodfordian ice- contact stratified drift (Berg and others, 1977).
103	G. H. Litts and Sons, Inc. R. D. 4, Box 820 East Stroudsburg, PA 18301	Office (717) 223-9215	do.	do.	do.	See Alvord and Drake (1971) for geology.
Susquehanna County						
104	Kirk S. Hinkley 7 Susquehanna Avenue Hallstead, PA 18822	Site (717) 879-2495	Open pit Warren Long	do.	do.	Mining outwash of Salt Lick Creek.
Venango County						
105	Franklin Gravel Company R. D. 1 Utica, PA 16362	Office (814) 437-1064	Open pit Lepley	do.	Borrow and general fill Construction aggregate	Mapped as outwash, river ter- races, and lake deposits, undifferentiated (Shepps and others, 1959).
Wayne County						
106	William Hemmler R. D. 5 Moscow, PA 18444	Office (717) 689-2173	Open pit	do.	Borrow and general fill	Appears to be a kame-like deposit.
107	Florence M. Johnson Box 105 Lakeville, PA 18438	Office (717) 226-4012	do.	do.	do.	Also possibly mining weath- ered bedrock from the Cats- kill Formation.
108	Bonham's General Contracting P. O. Box 270 Honesdale, PA 18431	Office (717) 253-0693	do.	do.	do.	Appears to be a kame-like deposit associated with Dyberry Creek.

**BORROW AND GENERAL FILL
SANDSTONE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SANDSTONE						
Berks County						
111	Empire Wrecking Company, Inc. 1400 Carbon Street Reading, PA 19601	Office (215) 372-6511	Open pit Neversink No. 1	Hardyston quartzite	Borrow and general fill	Mines the weathered and friable surface material. See MacLachlan (1983).
SHALE						
Bedford County						
112	Miller Brothers P. O. Box 52 Saxton, PA 16678	Office (814) 658-3066	Open pit Liberty	Foreknobs shale and siltst	do.	Noncommercial. May also contain Juniata River alluvium.
113	do.	Office (814) 658-3066	Open pits Liberty Township	Brallier shale Harrell shale	do.	Noncommercial operation in two distinct pits southwest of Stonerstown.
114	Glenn F. Guyer R. D. 1 Martinsburg, PA 16662	Office (814) 793-2964	Open pit	Reedsville shale	do.	Probably in black shale of Antes Member.
115	F. Paul Shaffer P. O. Box 59 Hyndman, PA 15545	Office (814) 842-3298	do.	Marcellus shale Needmore shale	do.	Marcellus and Needmore, undivided. See de Witt (1974) for geology.
116	Robert Fleegle R. D. 2 Bedford, PA 15522	Office (814) 623-8275	do.	Hamilton Group shale	do.	
Berks County						
117	Walter Zwicky R. D. 1 Robesonia, PA 19551	Office (215) 693-3488	Open pit W. E. Zwicky	Hamburg sequence shale	do.	
118	Curtis Bayshore R. D. 2 Bethel, PA 19507	Office (717) 933-8432 or (717) 933-8686	Open pit Bayshore's	Hamburg sequence graywacke	do.	
121	Bern Township Lions Recreation Assn. R. D. 1 Leesport, PA 19533	Site (215) 926-5513	Open pit Lions Rec. Assn.	Hamburg sequence shale	do.	See MacLachlan (1979) for geology.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Berks County (cont.)						
122	Mark J. Bechtold R. D. 2571 Bethel, PA 19507	Office (717) 933-4530	Open pit Bechtold	Hamburg sequence shale and gwlke	Borrow and general fill	
Blair County						
123	G. E. Sell P. O. Box 578 Second Avenue Duncansville, PA 16635	Office (814) 695-6171	Open pit	Hamilton Group shale	do.	Dark shale of the Mahantango and Marcellus Formations, undifferentiated.
124	Margaret J. Miller R. D. 2, Box 456 Altoona, PA 16601	Office (814) 944-2279	do.	Brallier shale Harrell shale	do.	Brallier and Harrell Forma- tions, undivided.
125	Roy F. Mollot R. D. 2 Martinsburg, PA 16662	Office (814) 793-3612 or (814) 793-2887	do.	Reedsville shale	do.	
126	Terry L. Long R. D. 1 Martinsburg, PA 16662	Office (814) 793-3993	Open pit Henrietta quarry	do.	do.	
127	Curry Excavating R. D. 5, Box 259 Duncansville, PA 16635	Office (814) 695-0056	Open pit	Brallier shale Harrell shale	do.	Brallier and Harrell Forma- tions, undivided. Intermit- tent production.
128	William Smith R. D. 1, Box 479 East Freedom, PA 16637	Office (814) 239-5349	do.	do.	do.	Brallier and Harrell Forma- tions, undivided. Intermit- tant production.
Bradford County						
131	Mott and Sherman Rt. 3 Troy, PA 16947	Office (717) 297-3786	do.	Lock Haven shale	do.	Mining a gray shale.
132	Donald E. Falsey R. D. 4, Box 276 Towanda, PA 16848	Office (717) 265-6354	Open pit Falsey's	Catskill shale	do.	

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Cambria County						
133	Richard A. Bender Box 146 Carrolltown, PA 15722	Office (814) 344-6613	Open pit	Glenshaw shale	Borrow and general fill	
134	Richard H. Jones 344 Dark Shade Drive Windber, PA 15963	Office (814) 467-8001	do.	Casselman shale	do.	Pit is developed near the axial trace of the Wilmore syncline.
135	Donald D. Rose R. D. 6, Box 94 Johnstown, PA 15909	Office (814) 322-4948	do.	Glenshaw shale	do.	
Carbon County						
136	Harley Henning Box 97 Albrightsville, PA 18210	Office (717) 722-0269	do.	Spechtly Kopf shale	do.	Noncommercial. See Sevon (1975a) for geology.
137	J. E. Smith, Inc. Star Route Jim Thorpe, PA 18229	Office (717) 325-3658	Open pit J. E. Smith	Spechtly Kopf shale to cgl	do.	Mining a gray shale. See Sevon (1975a) for geology.
Centre County						
138	Bonnie S. McCormick Box 134, Skytop Farm Port Matilda, PA 16870	Site (814) 238-4562		Reedsville shale	do.	Intermittent production.
Columbia County						
141	Clyde Bartholomew R. D. 2 Orangeville, PA 17859	Site (717) 387-1825	Open pit Barts Shale & Fill	Catskill shale	do.	Location and formation uncertain.
142	Buddy E. Eyer R. D. 1, Box 284 Millville, PA 17846	Site (717) 458-6289	Open pit	Mahantango shale	do.	See Way (in press) for geology.
143	Robert C. Young, Inc. Second and Fair Streets Mifflinville, PA 18631	Office (717) 759-8917	do.	Catskill shale	do.	See Inners (1981) for geology.
144	Ryland Hock R. D. 2 Millville, PA 17846	Office (717) 458-6188	do.	Mahantango shale	do.	Lower member of the Mahan- tango Formation. See Inners (1981) for geology.

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Crawford County						
145	Wood Gravel Company R. D. 3, Box 397 Conneaut Lake, PA 16316	Office (814) 382-2187	Open pit Scott	Cuyahoga Group shale	Borrow and general fill	
146	Robert E. Watson R. D. 4, Box 283 Centerville, PA 16404	Office (814) 967-4975	Open pit	Bedford shale	Borrow and general fill Construction aggregate Topsoil	Coarse aggregate is glacial gravel.
147	Keber Construction Cochran Road Meadville, PA 16335	Office (814) 724-1600 or (814) 336-1256	Open pit Well Rocks	do.	Borrow and general fill	See Schlner and Gallaher (1979) for geology.
148	Bryan M. Agnew R. D. 2 Conneautville, PA 16406		Open pit	do.	do.	do.
Cumberland County						
151	Raymond E. Russell R. D. 2, Box 150 Newville, PA 17241	Office (717) 776-3688	do.	Martinsburg shale	do.	
152	E. E. Kough Sons P. O. Box 134 Newville, PA 17241	Site (717) 776-5685	do.	do.	do.	
153	Snoke's Excavating and Paving, Inc. P. O. Box 67 Walnut Bottom, PA 17266-0067	Office (717) 532-2857 or (717) 776-3185	Open pit Martins	do.	do.	
154	N. L. Minich and Sons 730 N. College Street Carlisle, PA 17013	Office (717) 243-2856	Open pit	do.	do.	See Root (1978) for geology.
155	Harry L. Hamilton R. D. 1 Shippensburg, PA 17257		do.	do.	do.	
156	Wickard's Excavating R. D. 1, Box 394 Newville, PA 17241	Office (717) 776-5701	Open pit Wickard-Negley	do.	do.	

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Cumberland County (cont.)						
157	John F. Walter Excavating, Inc. P. O. Box 175 Newville, PA 17241	Office (717) 776-3148	Open pit	Martinsburg shale	Borrow and general fill	See Root (1978) for geology.
158	Cumberland Excavating & Paving, Inc. Box D Shippensburg, PA 17257	Office (717) 532-5862	Open pit Cumberland No. 1	do.	do.	
161	Stevie A. Hurley R. D. 3, Box 142 Newville, PA 17241	Office (717) 243-0134	Open pit Brownwell	do.	do.	See Miller (1961) for geology.
Dauphin County						
162	Swatara Contractors, Inc. 7141 Chambers Hill Road Harrisburg, PA 17111	Office (717) 564-2337	Open pit	Hamburg sequence shale	do.	
Franklin County						
163	Sunny Hill Development Corporation P. O. Box 1013 Chambersburg, PA 17201	Office (717) 264-6150	do.	Martinsburg shale	do.	
164	Frank J. Dice 5570 Edenville Road Chambersburg, PA 17201	Office (717) 263-3936	do.	do.	do.	Black shale.
165	D. A. Helman Excavating 5933 Stany Hill Road Waynesboro, PA 17268	Office (717) 749-3661	Open pit Garber mine	do.	do.	do.
166	Fayetteville Contractors, Inc. P. O. Box 214 Fayetteville, PA 17222	Office (717) 352-2186	Open pit Hege quarry	do.	do.	Black carbonaceous and fissile shale.
167	Walls Brothers Salvage 5268 Race Track Road St. Thomas, PA 17252	Office (717) 369-3919	Open pit	do.	do.	
168	Donald L. Weller Rt. 2 Hancock, MD 21750	Office (301) 678-5309	Open pit Seburn	Hamilton Group shale	do.	Mines dark shales of the Mahantango and Marcellus formations, undivided. See Hoover and others (1971) for analysis.

**BORROW AND GENERAL FILL
SHALE**

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Franklin County (cont.)						
171	David H. Martin Box 238 Scotland, PA 17254	Site (717) 264-2168	Open pit David H. Martin	Martinsburg shale Martinsburg siltstone	Borrow and general fill	
172	Snoke's Excavating and Paving, Inc. P. O. Box 67 Walnut Bottom, PA 17266-0067	Office (717) 532-2857 or (717) 776-3185	Open pit Vaughn's	Martinsburg shale	do.	
173	Grove Manufacturing Company Box 21 Shady Grove, PA 17256	Office (201) 368-9000 Site (717) 597-8121	Open pit Grove	do.	do.	See Root (1968) for geology.
174	G. A. Clopper 100 West 9th Street Waynesboro, PA 17268		Open pit Young	do.	do.	See Root (1968) for geology. Includes shale alluvium.
175	Crouse Brothers 3343 Waynecastle Road Waynesboro, PA 17268	Office (717) 762-4947	Open pit Crouse Bros.	do.	do.	
176	Charles W. Kershner, Jr., and Son 12873 Ridge Road Greencastle, PA 17225	Site (717) 597-7671	Open pit	do.	do.	See Root (1968) for geology.
177	Lee R. Hamner P. O. Box 207 Waynesboro, PA 17268	Office (717) 762-5014	Open pit Antrim mine	do.	do.	See Root (1968) for geology and Hoover and others (1971) for analysis. Possible lightweight-aggregate potential.
178	Earl Starlipper 12485 Buchanan Trail West Mertersburg, PA 17236	Office (717) 328-3948	Open pit Martin	do.	do.	
181	Robert S. Rosenberry and Sons 8885 Pineville Road Shippensburg, PA 17257	Office (717) 532-4026	Open pit Rosenberry & Sons	do.	do.	
182	Lester G. Crider 2822 Rocky Springs Road Chambersburg, PA 17201	Office (717) 263-4448	Open pit	Martinsburg shale and siltst	do.	See Root (1971) for geology.

BORROW AND GENERAL FILL
SHALE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Franklin County (cont.)						
183	P & W Excavating Company P. O. Box 712 McConellsburg, PA 17233	Office (717) 485-5141	Open pit P & W Stevens	Martinsburg shale	Borrow and general fill	See Root (1968) for geology.
184	do.	Office (717) 485-5141	Open pit P & W Bowen	do.	do.	See Root (1968) for geology. See Hoover and others (1971) for analysis.
185	L. E. Walls Excavating 5341 Race Track Road St. Thomas, PA 17252	Office (717) 369-4292	Open pit Hamilton Twp.	do.	do.	See Root (1968) for geology.
186	do.	Office (717) 369-4292	Open pit Greene Twp.	do.	do.	See Root (1971) for geology.
187	Jay Gettel Star Route 3 Shippensburg, PA 17257	Office (717) 532-6257	Open pit	do.	do.	
188	R. and A. Bender, Inc. Box 42 Pleasant Hall, PA 17246	Office (717) 264-4678	do.	do.	do.	Noncommercial.
191	Charles E. Brake Company, Inc. P. O. Box 275 St. Thomas, PA 17252	Office (717) 369-3411	Open pit Radio Hill Open pit Rife	do.	do.	See Root (1968) for geology.
192	do.	Office (717) 369-3411	Open pit Antrim	do.	do.	See Root (1971) for geology. See Hoover and others (1971) for analysis. Some light- weight-aggregate potential.
193	Edgar C. Grove Star Route 3 Shippensburg, PA 17257	Office (717) 532-5524	Open pit	do.	do.	
194	Robert D. McCulloh 5006 Buchanan Trail West Greencastle, PA 17225	Office (717) 597-2702	do.	do.	do.	
195	Glen P. Shatzer Excavating 2605 Apple Way Chambersburg, PA 17201	Office (717) 369-2204	do.	do.	do.	Possible lightweight-aggre- gate potential. See Hoover and others (1971).

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Franklin County (cont.)						
196	R & D Contractors 332 West Main Street Fayetteville, PA 17222		Open pit	Martinsburg shale	Borrow and general fill	See Root (1971) for geology. May have some potential for lightweight aggregate. See Hoover and others (1971) for nearby analysis.
197	Paul M. Bricker 1635 Edenville Road Chambersburg, PA 17201	Office (717) 263-3717	Open pit Conners Open pit Lehman	do.	do.	See Root (1971) for geology. Some potential for light- weight aggregate. See Hoover and others (1971) for nearby analyses.
198	John C. Kahl, Jr. 8812 Anthony Highway Waynesboro, PA 17268	Office (717) 749-3343	Open pit	do.	do.	Noncommercial. Some potential for lightweight aggregate. See Hoover and others (1971) for nearby analysis.
Fulton County						
201	Michael R. Hess R. D. 1, Box 457-3 McConnellsburg, PA 17233	Office (717) 485-5379	do.	Scherr shale and siltst	do.	
202	Jim Mellott R. D. 1, Box 8 Big Cove Tannery, PA 17212	Office (717) 485-5247	Open pit Hill	Reedsville shale	do.	
203	Melvin E. Everetts Star Route South McConnellsburg, PA 17233	Office (717) 485-3688	Open pit	do.	do.	
204	John L. Hendershot S. R. S., Box 208 McConnellsburg, PA 17233	Office (717) 485-3715	do.	Salona shaly ls	do.	See Pierce (1966) for geology. Could also be mining the lower Reedsville black shale.
Huntingdon County						
205	Dean E. Yocum R. D. Petersburg, PA 16669	Home (814) 669-4215	do.	Brallier shale Harrell shale	do.	Brallier and Harrell Formations, undivided.

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Huntingdon County (cont.)						
206	Marks Brothers R. D. 4, Box 167A Huntingdon, PA 16652	Office (814) 643-1774	Open pit	Hamilton Group shale	Borrow and general fill	
207	Miller Brothers P. O. Box 52 Saxton, PA 16678	Office (814) 658-3066	Open pit Entriiken	Marcellus shale	do.	Noncommercial.
208	do.	Office (814) 658-3066	Open pit Todd Township	Mauch Chunk shale	do.	do.
211	Robbie Love Excavating 9 Lincoln Street Robertsdale, PA 16674		Open pit	Allegheny Group shale	do.	
Indiana County						
212	Silverd Bros. Coal Company R. D. 1, Box 199 Clymer, PA 15728	Office (412) 254-2800	Open pit J and B Rock	Glenshaw shale	do.	
213	Gary L. Mumau R. D. 2, Box 18 Marion Center, PA 15759	Office (412) 397-4417	Open pit	do.	do.	
214	William E. Kensey R. D. 2, Box 546 Clymer, PA 15728	Office (412) 254-9833	do.	do.	do.	
215	Bob Head Excavating P. O. Box 518 Indiana, PA 15701	Office (412) 463-3576	do.	do.	do.	
216	William J. Ackerson R. D. 2 Clymer, PA 15728	Office (412) 254-2644	do.	do.	do.	
Juniata County						
217	James H. Hosler R. D. 2, Box 68 Port Royal, PA 17082	Office (717) 527-4774	Open pit Hosler shale bank	Rose Hill shale	do.	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Junata County (cont.)						
218	Carl M. McKnight 23 North Sixth Street Mifflintown, PA 17059	Office (717) 436-2635	Open pit Licking Creek	Rose Hill shale	Borrow and general fill	Location and formation uncertain.
Lackawanna County						
221	Adam Mroczka R. D. 1, Box 1000 Jermyn, PA 18433	Office (717) 254-6831	Open pit	Catskill shale	do.	Mines red shale.
222	Melvyn C. Snyder R. D., Box 40 Jermyn, PA 18433	Office (717) 254-6499	Open pit Snyder's	do.	do.	
223	Elmo Baldassarri Venezia D-2 Bellefonte Apartments Scranton, PA 18505	Office (717) 346-7571	Open pit	Mauch Chunk shale	do.	Intermittent production.
224	R Z Excavating, Inc. R. D. 1, Box 975 Jermyn, PA 18433	do.	do.	Catskill shale	do.	Mining a red shale.
Lebanon County						
225	Glenn Sanger 935 East Maple Street Lebanon, PA 17042	Office (717) 273-3996	do.	Hamburg sequence shale	do.	
226	Stephen Esh 797 N. College Street Myerstown, PA 17067	do.	do.	do.	do.	
Luzerne County						
227	Tom L. Bowers, Inc. R. D. 4, Box 4065 Berwick, PA 18603	Office (717) 752-4969	do.	Trimmers Rock shale and ss	do.	Intermittent production. See Inners (1978) for geology.
Lycoming County						
228	Andrew E. Trautner and Sons, Inc. P. O. Box 36 Cogan Station, PA 17728	Office (717) 494-0191	do.	Catskill shale	do.	Mining the Irish Valley Member. See Falli and others (1977b) for geology.

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
McKean County						
231	Frederick L. Gregory R. D. 2, P. O. Box 713 Kane, PA 16735		Open pit	Pottsville Gp.(?)	Borrow and general fill	Might also be mining the Shenango through Oswayo Formations, undivided.
Wifflin County						
232	Donald A. Laub R. D. 3, Box 206 Lewistown, PA 17044	Office (717) 543-6283	do.	Onondaga shale Marcellus(?) shale	do.	Dark-gray to black shales.
233	George C. Moore Excavating R. D. 1, Box 85 Belleville, PA 17004	Site (717) 667-2892	do.	Reedsville shale	do.	
234	Wesley W. Parchey R. D. 2, Box 141P McVeytown, PA 17051	Site (717) 899-6062	do.	Keyser shaly limestone Tonoloway shaly limestone	do.	
235	Mauery-Hunter-Laub R. D. 3, Box 206 Lewistown, PA 17044	Site (717) 543-6283	do.	Marcellus shale	do.	See Conlin and Hoskins (1962) for geology. Mining princi- pally the Shamokin Member (dark shale).
236	Russell Brannon R. D. 2, Box 358D Lewistown, PA 17044	Office (717) 242-0180 Site (717) 248-4115	do.	Clinton Group shale Rose Hill Fm.	do.	Gray shale is mined with some residual clay.
237	Lloyd E. Cavanaugh R. D. 4, Box 95C Lewistown, PA 17044	Office (717) 248-9470	do.	Clinton Group shale	do.	Noncommercial.
238	Caleb J. Peachey R. D. 1, Box 281 Belleville, PA 17004	Office (717) 935-5289	do.	Reedsville shale	do.	
241	David N. Peachey R. D. 1 Belleville, PA 17004		do.	do.	do.	
242	Jesse M. Kauffman R. D. 2, Box 471 Belleville, PA 17004	Office (717) 935-2879	Open pit Patton	do.	do.	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Monroe County						
243	Mt. Airy and Pocono Gardens Lodge Mt. Pocono, PA 18344		Open pit Merry Hill Open pit Simpson	Catskill shale	Borrow and general fill Driveways	Noncommercial. Mining a red shale.
244	Pocono Explosives C. H. Van Why, Inc. R. D. 5, Box 747K East Stroudsburg, PA 18301	Office (717) 223-9221	Open pit Reeser	Marcellus shale	Borrow and general fill	
245	Charles Perry and Sons R. D. 2, Box 2349 Stroudsburg, PA 18360	Office (717) 992-6338 or (717) 421-3857	Open pit	Mahantango shale	do.	
246	B. Gregory Krummel Box 82 Canadensis, PA 18325	Office (717) 595-7342 or (717) 595-9020	Open pit BGK Materials	Catskill shale	do.	Mines a red shale.
247	Pocono Excavators Canadensis, PA 18325	Office (717) 595-2293 or (717) 595-7752	Open pit Pocono Excavators	do.	do.	do.
248	Papillon Contracting, Inc. 816 North Ninth Street Stroudsburg, PA 18360	Office (717) 421-5068	Open pit	Marcellus shale	do.	Noncommercial.
251	Angelo DeLuzio Star Rt., Box 23 Kresgeville, PA 18333	Site (215) 681-4342	do.	do.	do.	Location and formation uncertain.
252	Harry Ahnert, Robert Ahnert, Harry Lee, Peter Ahnert 22 North Seventh Street Stroudsburg, PA 18360	Office (717) 588-6661	Open pit Pocono Mt. Acres	Catskill shale	do.	Noncommercial. Mining the Long Run Member, a red shale. See Perg and others (1977) for geology.
253	Izzy Industries, Inc. 251 Washington Street Bangor, PA 18013	Office (215) 588-6122	Open pit Young	Marcellus shale	do.	

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Montour County						
254	James A. Blue P. O. Box 277 Danville, PA 17821	Site (717) 275-3150	Open pit	Hamilton Group(?) shale	Borrow and general fill	Bring your own equipment.
255	Foster G. Watson R. D. 1 Turbotville, PA 16335	Office (717) 437-2531	do.	Mahantango shale	do.	Mining the upper part of the Mahantango Formation. See Hoskins and others (1983) for description and fossils.
256	Daniel W. Diehl and Son R. D. 3 Danville, PA 17821	Office (717) 437-2887	do.	Clinton Group shale	do.	
Northampton County						
257	Collis Used Auto Parts 3160 West Dannersville Road Northampton, PA 18067	Site (215) 837-7268 or (215) 262-6707	do.	Martinsburg shale	do.	
258	Moore Trucking, Inc. 2160 Community Drive Bath, PA 18014	Office (215) 759-0360	Open pit Moore Trucking	do.	do.	
Northumberland County						
261	Kenneth E. Erb R. D. 1, Box 374 Milton, PA 17847	Office (717) 742-9045	Open pit	Hamilton Group shale	do.	Mahantango and Marcellus Formations, undifferentiated.
262	R. C. Stahlnecker P. O. Box 296 Milton, PA 17847	Office (717) 742-7636	do.	Bloomsburg shale	do.	
263	Ralph E. Wert Dalmatia, PA 17017	Office (717) 758-8095	do.	Mahantango siltstone and sh	do.	
264	Roy A. Adams R. D. 3 Sunbury, PA 17801	Site (717) 286-9698	Open pit Roy Adams	Hamilton Group shale	do.	
265	Harold N. Foye R. D. 3, Box 179 Sunbury, PA 17801	Site (717) 286-2094	Open pit	Mahantango shale	do.	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Northumberland County (cont.)						
266	Joe Strouse R. D. 1, Box 4138 Northumberland, PA 17857	Site (717) 473-3924	Open pit	Hamilton Group shale	Borrow and general fill	Location and formation uncertain.
267	Robert P. Olvany 1 North Market Street Shamokin, PA 17872	do.	do.	Trimmers Rock shale	do.	
268	Doner Neidig R. D. 3 Sunbury, PA 17801	Office (717) 286-0012	do.	Hamilton Group shale	do.	
271	Bowman J. Ulrich, Jr., and Sons 200 Liberty Street Watsonstown, PA 17777	Office (717) 538-2380	Open pit B.J. Ulrich & Sons	Mahantango shale	Borrow and general fill Fillers and extenders	Also see "Fillers." See Fall (1979) for geology.
272	H. W. Klinger Excavating R. D. 1, Box 354B Northumberland, PA 17857	Office (717) 473-8161	Open pit	Trimmers Rock shale	Borrow and general fill	
273	Crawford Shale R. D. 1, Box 321 Watsonstown, PA 17777	Office (717) 538-2465	do.	Mahantango shale	do.	Mining the lower member of the Mahantango Formation. See Fall (1979) for geology.
Perry County						
274	Benjamin Dum R. D. 1, Box 64 Elliottsburg, PA 17024	Office (717) 582-2110	do.	Marcellus shale Onondaga shale	do.	Location uncertain.
275	H. F. Fahnestock R. D. 2, Box 33 Newport, PA 17074	Office (717) 567-3163	do.	Trimmers Rock siltstone and sh Brallier siltstone and sh	do.	
276	Harry Baughman R. D. 2, Box 288 Landisburg, PA 17040	Office (717) 789-3928	Open pit Kimmel-Baughman	Mahantango shale	do.	
277	Fred D. Thebes R. D. 2, Box 133 New Bloomfield, PA 17068	Office (717) 582-4285 or (717) 582-4654	Open pit	Tonoloway shale	do.	"Shale" is shaly limestone.

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Perry County (cont.)						
278	Charles E. Groff R. D. 1, Box 67 Blain, PA 17006	Office (717) 536-3216	Open pit	Clinton Group shale	Borrow and general fill	Probably mining the Rose Hill Formation.
281	J. Harold Stydinger R. D. 1 Millerstown, PA 17062	Office (717) 438-3618	do.	Mahantango shale	do.	See Fattl and Wells (1974) for geology.
282	Donald Shelbley R. D. 1 New Bloomfield, PA 17068	Office (717) 582-2422	do.	Trimmers Rock shale	do.	See Dyson (1963) for geology.
283	Tom B. Sheaffer R. D. 1, Box 438 New Bloomfield, PA 17068	Office (717) 834-3972	Open pit Sheaffer	do.	do.	do.
284	Fultz Brothers, Inc. R. D. 1 Elliottsburg, PA 17024	Office (717) 438-3354	Open pit	Mahantango shale	do.	
285	Clyde E. Smith R. D. 1, Box 198 Elliottsburg, PA 17024	Office (717) 438-3349	do.	do.	do.	Intermittent production. See Miller (1961) for geology.
286	Anna and Harry Lesh R. D. 2 Newport, PA 17074	Office (717) 567-3451	Open pits A. and H. Lesh	Mahantango shale Harrell shale	do.	Three pits: H. Lesh No. 1 and No. 2 in Sherman Ridge Mbr. of Mahantango; A. Lesh in Harrell Fm. See Dyson (1963) for geology.
287	Bobbi L. Armolt R. D. 1, Box 165 Shermans Dale, PA 17090	Office (717) 582-4672	Open pit Armolt	Harrell shale	do.	See Dyson (1967) for geology.
Pike County						
288	White Beauty View, Inc. R. D. 2 Greentown, PA 18426	Office (717) 857-0234	Open pit	Catskill shale	do.	Mines a red shale.
291	Pocono Sky Enterprises P. O. Box 207 Greentown, PA 18426	Office (717) 676-3911	Open pit Pit No. 1	do.	do.	Noncommercial. See Sevon and others (in press) for geology.

**BORROW AND GENERAL FILL
SHALE**

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Pike County (cont.)						
292	Catherine Olsson R. D. 1, Box 470 Canadensis, PA 18325	Office (717) 595-2060	Open pit New Ground	Catskill shale	Borrow and general fill	See Sevon and others (in press) for geology.
293	C. F. Steimling, Inc. Box 91 Tatton, PA 18464	Office (717) 226-2551	Open pit	do.	do.	Some glacial sand also reported as being mined. See Sevon and others (in press) for geology.
294	Charles Franklin Ruffner R. D. 1, Box 497 Canadensis, PA 18325	Office (717) 595-2662	do.	do.	do.	Mining a red shale.
Schuylkill County						
295	Andrew Kochis Rt. 206, Box 202 Belle Mead, NJ 08502	Office (201) 359-6331	do.	Hamilton Group shale	do.	
Snyder County						
296	Glen E. Dunkelberger R. D. 2 Middleburg, PA 17842	Office (717) 837-3689	do.	do.	Borrow and general fill Driveways Construction aggregate	Mahantango and Marcellus Formations, undivided.
297	Smith J. Gross R. D. 2, Box 215 McClure, PA 17841	Office (717) 658-3195	Open pit Gross	Harrell shale	Borrow and general fill	
298	Ruhls Gravel Pit R. D. 3 Middleburg, PA 17842	Office (717) 374-4791	Open pit Ruhls	Clinton Group shale	do.	
301	Kreamer Construction Company R. D. 3, Box 88 Middleburg, PA 17842	Office (717) 837-1463	Open pit	Trimmers Rock shale	do.	
302	Emmit L. Kreamer R. D. 3, Box 88 Middleburg, PA 17842	Office (717) 837-1463	Open pit E. L. Kreamer	Hamilton Group shale	do.	
303	Bruce H. Garrison R. D. 1 Beavertown, PA 17813	Office (717) 658-7172	Open pit	Clinton Group shale	do.	Noncommercial.

BORROW AND GENERAL FILL
SHALE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Snyder County (cont.)						
304	Jacob P. Zechman R. D. 1, Box 225 Beaver Springs, PA 17812	Office (717) 658-7477	Open pit	Trimmers Rock shale	Borrow and general fill	
305	Marvin R. Haines R. D. 1 Mount Pleasant Mills, PA 17853	Office (717) 539-4702	Open pits	Mahantango shale	do.	Mining the Fisher Ridge Member. See Faili and Wells (1974) for geology.
306	Rudolph R. Ewing R. D. 1, Box 80 Beaver Springs, PA 17812	Office (717) 658-5071	Open pit Troup Open pit Eyesman	Trimmers Rock shale	do.	See O'Neill and Barnes (1981) for analysis.
307	Monroe Township Supervisors R. D. 5, Box 123 Selinsgrove, PA 17870	Office (717) 743-7057	Open pit Monroe Twp. Shale	Hamilton Group shale	do.	Noncommercial. Probably Harrell Formation.
Sullivan County						
308	F. Calvin Beinlich Box 21 Forksville, PA 18616	Office (717) 924-3756	Open pit	Catskill shale	do.	
311	LaRue Litzelman R. D. 2, Box 91 New Albany, PA 18833	Office (717) 924-3855	do.	do.	do.	
Union County						
312	William O. Pontius R. D. 1 Mifflinburg, PA 17844	Office (717) 922-1548	do.	Rose Hill shale	do.	
313	Olan Boop Laurelton, PA 17835	Office (717) 922-1437	do.	Clinton Group shale	do.	Probably mining the Rose Hill Formation. See O'Neill and Barnes (1981) for analyses.
314	do.	Office (717) 922-1437	do.	do.	do.	do.
315	Bieber's Contracting Company, Inc. R. D. 1 New Columbia, PA 17856	Office (717) 568-7701	Open pit Allenwood	do.	do.	

BORROW AND GENERAL FILL
SHALE

39

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Union County (cont.)						
316	Betty A. Willow R. D. 1, Box 178A Millmont, PA 17845	Office (717) 922-1841	Open pit Willow's	Mifflintown shale	Borrow and general fill	
317	Gessner Excavating 660 Plum Street New Berlin, PA 17855	Office (717) 966-2631	Open pit	Clinton Group shale	do.	Probably mining the Rose Hill Formation.
Wayne County						
318	Ciccione Excavating, Inc. R. D. 2 Honesdale, PA 18431	Office (717) 253-0718	do.	Catskill shale	do.	Red shale. Location uncer- tain.
321	Krempasky Construction Company R. D. 4 Honesdale, PA 18431	Office (717) 253-2690	do.	do.	do.	Mining a red shale. Mapped as Long Run and Walcksville Members.
322	Donald Schmidt R. D. 1, Box 258A Hawley, PA 18428	Office (717) 253-2409 or (717) 253-3048	do.	do.	do.	Mining a red shale. Commer- cial operation in the Long Run and Walcksville Members.
323	William L. Pykus R. D. 1 Honesdale, PA 18431	Office (717) 448-2802	Open pits Red Schoolhouse	do.	do.	Also mines a nearly depleted pit at Cold Spring.
324	Tim Kohr's Excavating R. D. 1, Box 91 Honesdale, PA 18431	Office (717) 253-2468	Open pit Harvey's No. 1	do.	do.	Mines a red shale.
325	Olsen's Shale Bank R. D. 1, Box 81 Lakewood, PA 18439	Office (717) 798-2876	Open pit	do.	do.	do.
326	Mary T. DeVrieze Milanville, PA 18443	Site (717) 729-7988	do.	do.	do.	do.
327	Wood Excavation and Construction R. D. 1 Damascus, PA 18415	Site (717) 224-4113	do.	do.	do.	Mines a red shale and also glacial gravel.
328	James A. and Paula Strasser Star Rt. 1, Box 22A Lakeview, PA 18438	Office (717) 226-4615	do.	do.	do.	Mines a red shale.

**BORROW AND GENERAL FILL
SHALE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Wayne County (cont.)						
331	Ronald Poska R. D. 2 Forest City, PA 18421	Office (717) 785-3363	Open pit	Catskill shale	Borrow and general fill	Produces a red shale inter- mittently.
332	Como Construction Company Lake Como, PA 18437	Office (717) 798-2352	do.	do.	do.	Noncommercial.
333	James J. Mellon R. D. 5 Lake Ariel, PA 18436	Office (717) 689-9300	Open pit Red Sh. of Hamlin	do.	do.	Mining a red shale.
334	Ciccione Excavating, Inc. R. D. 2 Honesdale, PA 18431	Office (717) 253-0718	Open pit Ciccione Excavating	do.	do.	do.
335	James Rutledge Box 36 Tyler Hill, PA 18469	Office (717) 224-4689	Open pit Pit No. 1	do.	do.	Noncommercial.
336	Dexter Construction Company R. D. 1, Box 410 Beach Lake, PA 18405	Office (717) 729-7318	Open pit	do.	do.	do.
337	Berton Roloson Excavating R. D. 1, Box 274 Equinunk, PA 18417	Office (717) 224-4881	Open pit Tanacek	do.	do.	Noncommercial. Mining a red shale.
338	Alex J. Fasceski R. D. 3 Honesdale, PA 18431	Office (717) 224-4465	Open pit A. J.	do.	do.	Mining red shale.
341	Indian Orchard Gravel Services (Roland E. Mill) Rt. 4 Honesdale, PA 18431	Site (717) 253-3498	Open pit	do.	Borrow and general fill Construction aggregate	Mining a red shale. Con- struction aggregate is gla- cial sand and gravel.
342	Richard T. Ciccione R. D. 2 Honesdale, PA 18431	Office (717) 253-5488	Open pit R. T. Ciccione	do.	Borrow and general fill	Mining a red shale.
343	John Tiel Excavating R. D. 4, Box 1670 Honesdale, PA 18431	Site (717) 253-3564	Open pit John Tiel	do.	do.	do.

**BORROW AND GENERAL FILL
SLATE**

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>BORROW AND GENERAL FILL (cont.)</u>						
SHALE (cont.)						
Wayne County (cont.)						
344	John R. Ciccone R. D. 2 Honesdale, PA 18431	Office (717) 253-5160	Open pit J. R. Ciccone	Catskill shale	Borrow and general fill	Mining a red shale.
345	Martin J. Medved R. D. 2 Unionville, PA 18470		Open pit Pit No. 1	do.	do.	do.
346	Ed Sharett address unknown	Office (717) 689-4652	do.	do.	do.	do.
347	William K. Spry R. D. 4 Honesdale, PA 18431	Office (717) 253-2749	Open pit	Catskill shale and siltst	do.	Mining the Long Run and Walcksville Members, undivided.
SLAG						
Carbon County						
348	Herman Bollinger R. D. 2 Palmerton, PA 18071	Office (215) 826-4741	Dump N. J. Zinc Co.	Man-made slag	Borrow and general fill Antiskid	Slag is a by-product of smelting zinc ores.
Lehigh County						
351	Celotex Corporation P. O. Box 663 Pittston, PA 18640	Office (717) 388-6131	Slag dump Fullerton	do.	Borrow and general fill	Subcontractor mines material.
Washington County						
352	Molag, Inc. 401 First Financial Plaza Washington, PA 15301	Office (412) 228-1111	Dump Molag	Man-made molybdenum slag	Borrow and general fill Antiskid	Slag is a by-product of smelting molybdenum ores from Colorado.
SLATE						
Northampton County						
353	M. A. Williams, Jr., Excavating R. D. 1 Pen Argyl, PA 18072	Site (215) 759-0601	Open pit One	Martinsburg slate	Borrow and general fill	Mining the lower "hard slate" member of Behre (1933) or the equivalent of the Bushkill Member.

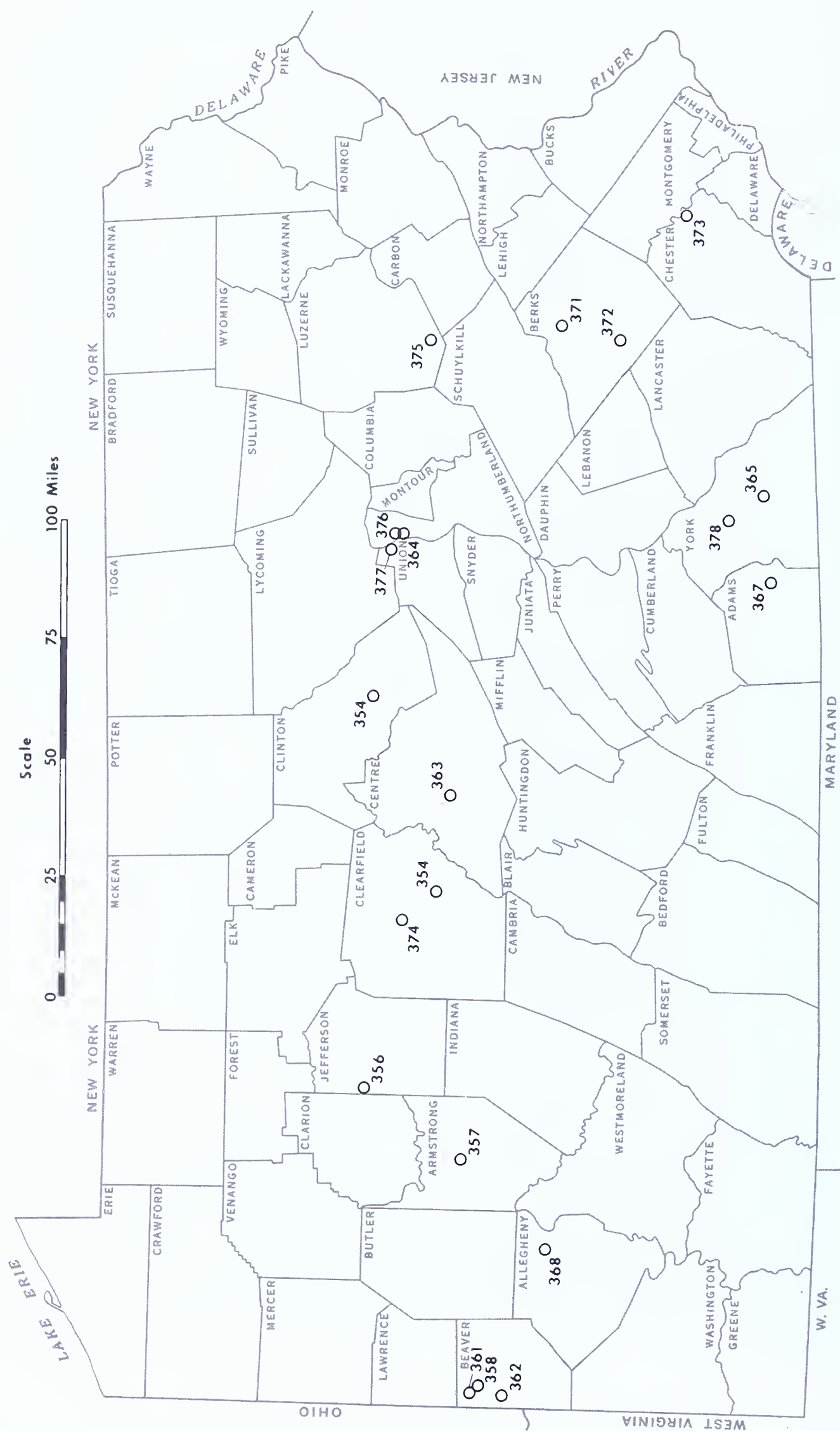


Figure 4. Locations of clay and shale mined for brick manufacture in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
BRICKS (CONSTRUCTION)						
CLAY-SHALE						
Adams County						
367	Glen-Gery Corporation Alwine Division P. O. Box 160 New Oxford, PA 17350	Office (215) 374-4011 Plant (717) 624-2144	Open pits (see "Comments")	New Oxford shale and clay	Bricks	Four pits are currently being mined: Hamilton No. 1, Oxford, C. Alwine, and Mt. Pleasant. See Stose (1932).
Allegheny County						
368	Harnar Clay Products, Inc. Rich Hill Road Cheswick, PA 15024	Office (412) 828-6300	Open pit	Casselman shale	Face bricks Paving bricks	See Wagner and others (1975) for geology.
Armstrong County						
357	Continental Clay Products Company Oak Street P. O. Box 69 Kittanning, PA 16201	Office (412) 543-2611	Underground mine	Allegheny Gp.(?) underclays(?)	Face bricks Tiles Chimney bricks	Probably mines the Lower Kittanning underclay and the Clarion underclay.
Beaver County						
358	Darlington Brick and Clay Products Box 346 Darlington, PA 16115	Office (412) 827-2121	Strip mines	Allegheny Group underclays	Bricks Tiles	Mining the Middle and Lower Kittanning underclays. See O'Neill and Barnes (1979) for analyses.
361	do.	Office (412) 827-2121	Strip mines White Property	do.	do.	Mining Lower Kittanning underclay. May also use some of the Middle Kittanning underclay.
362	do.	Office (412) 827-2121	Strip mines	Glenshaw shale	do.	See O'Neill and Barnes (1979) for analyses.
Berks County						
371	Glen-Gery Corporation Mid-Atlantic Division P. O. Box 280 Shoemakersville, PA 19555	Office (215) 374-4011 Plant (215) 562-8313	Open pit Shoemakersville 1 Open pit Shoemakersville 2	Hamburg sequence shale and clay	Bricks	Some Quaternary alluvial clay and gravel is mined at pit No. 2. See MacLachlan (1979).
372	Glen-Gery Corporation Reading Division P. O. Box 6305 Wyomissing, PA 19610	Office (215) 374-4011 Plant (215) 372-4643	Open pit Lower Heidelberg	Hamburg sequence shale	do.	Also blends residual clay from the Epler and Ontelaunee Formations. See MacLachlan and others (1975).

BRICKS (CONSTRUCTION)
CLAY-SHALE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
BRICKS (CONSTRUCTION) (cont.)						
CLAY-SHALE (cont.)						
Centre County						
363	Fleming Mining Company P. O. Box 49 Fleming, PA 16835	Office (412) 795-7600	Open pit	Rockwell clay-shale	Clay for brick manufacture	In development stage.
Chester County						
373	McAvoy Vitrifified Brick Company McAvoy Lane Phoenixville, PA 19460	Plant (215) 933-4087	do.	Stockton shale	Red face bricks	
Clearfield County						
354	Thompson and Phillips Clay Company P. O. Box 626 Phillipsburg, PA 16866	Office (814) 342-1800	Open pit Sanbourn No. 2	Kittanning underclay	Plastic clay for bricks	Mining Middle and Lower Kittanning underclays. See Edmunds (1968) for geology.
374	Harry F. Bigler R. D. 2 P. O. Box 64 Clearfield, PA 16830	Office (814) 765-8013	Open pit Bigler No. 2	Allegheny Group shale	Common shale for bricks	
Clinton County						
355	Fink and Stackhouse, Inc. 2325 Newberry Street Williamsport, PA 17701	Office (717) 323-5102	Open pit strip Farrandsville	Pottsville Group underclays	Cement additive Clay-pipe manufacture Brick manufacture Refractories	Operates various mines intermittently.
Jefferson County						
356	Hanley Brick, Inc. Summerville, PA 15864	Office (814) 856-2171	Open pit	Allegheny Group clay	Bricks	
Luzerne County						
375	Hazleton Brick, Inc. P. O. Box 335 Hazleton, PA 18201	Office (717) 454-0874	do.	Mauch Chunk siltstone and sh	Face bricks	See O'Neill and others (1965) for analyses.
Northumberland County						
364	Watsonstown Brick Company P. O. Box 68 Watsonstown, PA 17777	Office (717) 538-2555 or (717) 538-2556	Open pits	Bloomsburg shale Wills Creek shale	Shale for brick manufacture	See Berkheiser and Inners (1984) for a description of the operation.

CEMENT RAW MATERIALS
CLAY-SHALE

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
BRICKS (CONSTRUCTION) (cont.)						
CLAY-SHALE (cont.)						
Northumberland County (cont.)						
376	Glen-Gery Corporation Watsontown Division P. O. Box 37 Watsontown, PA 17777	Office (215) 374-4011 Site (717) 538-9100	Open pit Delaware quarry	Bloomsburg shale	Bricks	Blends with the Rose Hill to improve plasticity. See Berkheliser and Inners (1984).
Union County						
377	Glen-Gery Corporation Watsontown Division P. O. Box 37 Watsontown, PA 17777	Office (215) 374-4011 Site (717) 538-9100	Open pit White Deer quarry	Rose Hill shale	do.	See O'Neill and Barnes (1981) for analysis.
York County						
378	Glen-Gery Corporation York Division P. O. Box 227 York, PA 17405	Office (215) 374-4011 Plant (717) 848-2589	Open pit Dover	New Oxford shale	do.	Red shale.
PHYLLITE						
York County						
365	Glen-Gery Corporation York Division P. O. Box 227 York, PA 17405	Office (215) 374-4011 Plant (717) 848-2589	Open pit York	Harpers phyllite	do.	
SANDSTONE						
York County						
366	York Stone and Supply Company P. O. Box 1948 York, PA 17405	Office (717) 843-0981	Quarry Neuman's	Chickies quartzite	Brick facing (glazing)	Some aggregate also produced as a secondary product.
CEMENT RAW MATERIALS						
CLAY-SHALE						
Clinton County						
355	Fink and Stackhouse, Inc. 2325 Newberry Street Williamsport, PA 17701	Office (717) 323-5102	Open pit strip Farrandville	Pottsville Group underclays	Cement additive Clay-pipe manufacture Brick manufacture Refractories	Operates various mines intermittently.

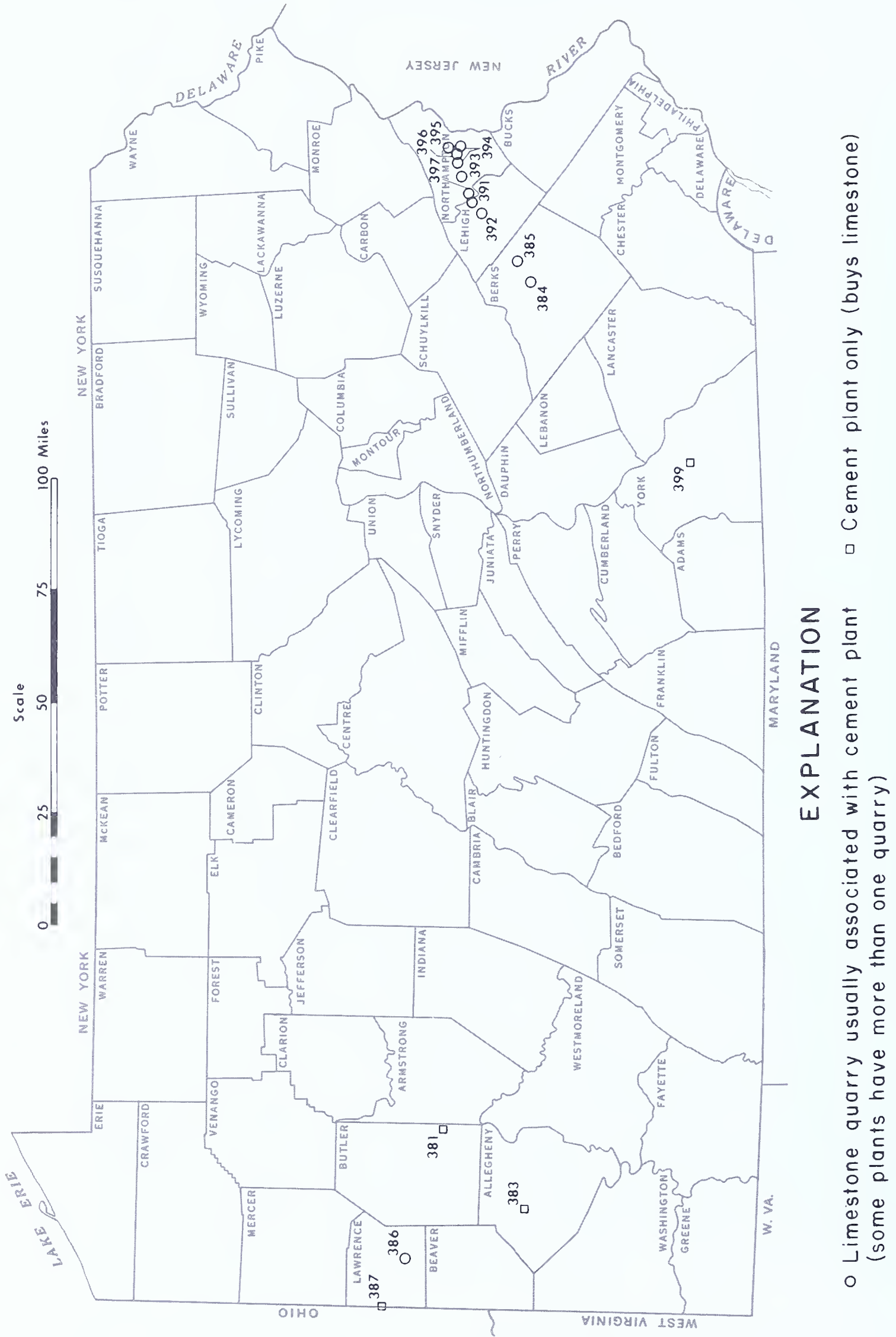


Figure 5. Locations of limestone mined for cement manufacture in Pennsylvania. (Also see location map (Figure 8) showing high-calcium limestone quarries for established and potential sources of sweetener for cement manufacture.) Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CEMENT RAW MATERIALS (cont.)</u>						
<u>CLAY-SHALE (cont.)</u>						
Lancaster County						
2	Narvon Products Corporation P. O. Box 58 Narvon, PA 17555	Office (717) 354-4941	Open pit Narvon mines	Chickies kaolinitic clay	Clay for cement manufacture Agricultural minerals Fillers Refractory clays	Mines a siliceous, kaolinitic and mica-rich white clay. See Hosterman (1984) for a brief description and chem- ical analysis.
Monroe County						
382	Lehigh Portland Cement Company 718 Hamilton Mall Allentown, PA 18105	Office (215) 776-2600 Site (215) 826-3013	Open pit Kunkletown	Varied kaolinitic clay	Clay for cement manufacture	White siliceous kaolinite. Captive mine. In the Butter- milk Falls, New Scotland, and Shriver Formations (Epstein and Hosterman, 1969).
LIMESTONE						
Allegheny County						
383	Lone Star Cement, Inc. P. O. Box 420 Norfolk, VA 23501	Office (804) 853-6701 Site (412) 922-3184	Plant Neville Island		Gray cement products	Cement plant only is on Neville Island. Limestone is mined in West Virginia. Former Marquette operation.
Berks County						
384	National Gypsum Company Allentown Cement Division Maiden Creek Road Evansville, PA 19521	Office (215) 926-1024	Quarry Evansville	Jacksonburg limestone	Limestone for cement mfg	See MacLachlan (1979) for geology and O'Neill (1964) for analysis.
385	do.	Office (215) 926-1024	Quarry Richmond No. 5	do.	do.	Minor production from this quarry. Held as future resource.
Butler County						
381	Armstrong Cement and Supply Corp. R. D. 2 Cabot, PA 16023	Office (412) 352-9401	Cement plant		Gray cement	Plant only. Does not mine any raw materials. Former Penn-Dixie plant at west Winfield.

CEMENT RAW MATERIALS
LIMESTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CEMENT RAW MATERIALS (cont.)						
LIMESTONE (cont.)						
Lancaster County						
37	Lancaster Lime and Stone Corp. (Eastern Industries, Inc.) P. O. Box 30 930 Pointview Avenue Ephrata, PA 17552	Plant (215) 267-2864	Quarry Schoeneck	Annaville limestone	Limestone for cement mfg Fluxstone High-calcium limestone Acid neutralization	Selectively mines the Myers- town and Ontelaunee for cnst. materials and the Annville for high-Ca products. See Berkheiser (1983) for anal.
Lawrence County						
386	Medusa Cement Company P. O. Box 5668 Cleveland, OH 44101	Office (216) 371-4000 Site (412) 535-4311	Strip mine Wampum	Vanport limestone	Limestone for cement mfg	Also mines overlying Middle and Lower Kittanning and Low- er Freeport coals for kiln fuel. See O'Neill (1964) for analysis.
387	S M E Bessemer Cement, Inc. (Louisville Cement Company) P. O. Box 5250 Poland, OH 44514	Office (216) 536-6275	Strip mine	do.	do.	Cement plant is located in Pennsylvania; current mining is in Ohio. Some previous mining was in Pennsylvania. See O'Neill (1976) for anal.
Lebanon County						
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	Annaville limestone Ontelaunee dolomite	Limestone for cement mfg High-calcium limestone High-calcium quicklime Fluxstone (limestone and dol) Construction aggregate	See O'Neill (1976) for analy- ses, Sims (1968) for descrip- tion and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
Lehigh County						
391	Whitehall Cement Manufacturing Co. (General Portland, Inc.) 5160 Main Street Whitehall, PA 18052	Office (214) 387-9000	Quarry Cementon	Jacksonburg limestone	Limestone for cement mfg	Phone is in Dallas, Texas. See Miller and others (1941) for a history of cement manu- facture in Lehigh Co., and O'Neill (1964) for analysis.
392	do.	Office (214) 387-9000	Quarry Ormsrod	do.	do.	do.

CEMENT RAW MATERIALS
SANDSTONE

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CEMENT RAW MATERIALS (cont.)						
LIMESTONE (cont.)						
Northampton County						
393	Keystone Portland Cement Company 7292 Park Dr., D. A. Bath, PA 18014	Site (215) 837-1881	Quarry Keystone	Jacksonburg limestone	Limestone for cement mfg Masonry cement Construction aggregate	Operates two quarries.
394	Coplay Cement Company P. O. Box 32 Nazareth, PA 18064	Office (215) 837-6725	Quarry Nazareth No. 1 Quarry Nazareth No. 2	do.	Limestone for cement mfg	Nazareth No. 2 quarry is the former Penn Dixie quarry SW of Nazareth. See Miller and others (1939) for description as "Nazareth Cement Company."
395	Hercules Cement Company Stockertown, PA 18083	Site (215) 759-6300	Quarry	do.	do.	Miller and others (1939) described plant and cement district.
396	Lone Star Industries, Inc. P. O. Box 270 Nazareth, PA 18064	Office (203) 661-3100 Site (215) 759-4210	Quarry Nazareth	do.	do.	See Miller and others (1939) for description and chemical analyses.
397	Whitehall Cement Manufacturing Co. (General Portland, Inc.) 5160 Main Street Whitehall, PA 18052	Office (214) 387-9000 Site (215) 261-0171	Quarry Northampton	do.	do.	Appears to be former Martin-Marietta Co. quarry (O'Neill, 1964). Office phone is in Dallas, Texas.
York County						
53	Thomasville Stone and Lime Company (Medusa Aggregates Company) P. O. Box 23 Thomasville, PA 17364	Office (800) 521-8299 Site (717) 792-2631	Underground	Kinzers limestone	Low-Fe ls for white cement Pulverized limestone for agr Fillers, extenders, whitening Fluxstone Glass manufacture	See Cloos (1968) for geologic description of the quarry, O'Neill (1964) for analysis, and Berkhelser (1983) for whitening producers.
399	Lehigh Portland Cement Company 718 Hamilton Mall Allentown, PA 18105	Office (215) 776-2600 Plant (717) 843-0811	White-cement plant York		White cement	Plant only. Buys limestone from Thomasville and mines white clay at Kunkletown. Former Medusa Cement Plant.
SANDSTONE						
Carbon County						
401	Alliance Sand Company R. D. 1, Box 73E Palmerton, PA 18071	Office (201) 534-4055 Site (215) 826-2248	Quarry Alliance Sand Co.	Palmerton sandstone	Silica for cement manufacture Construction aggregate	

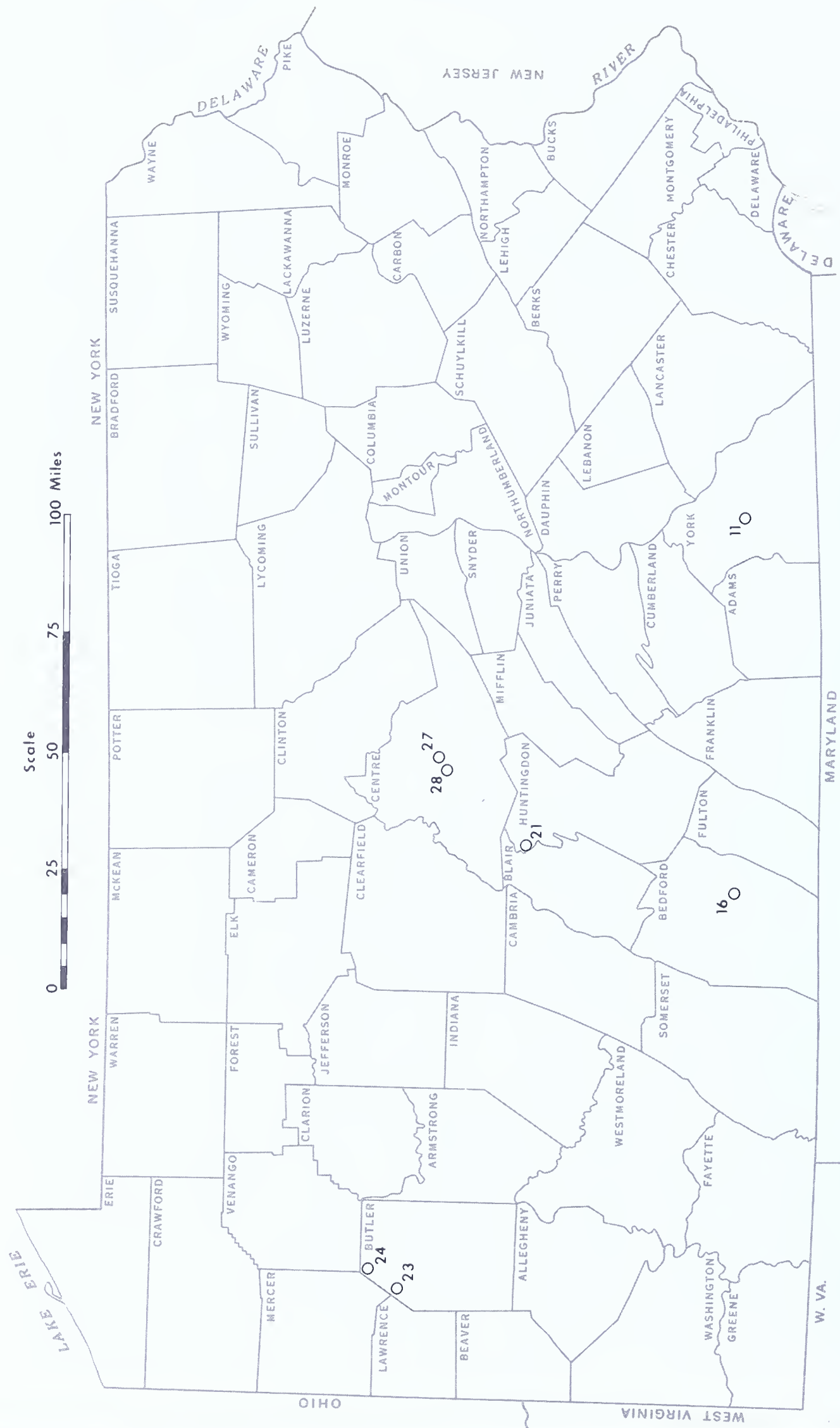


Figure 6. Locations of carbonate rocks mined to manufacture coal-mine rock dust in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CEMENT RAW MATERIALS (cont.)</u>						
<u>SANDSTONE (cont.)</u>						
<u>Schuylkill County</u>						
398	Refractory Sand Company, Inc. P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Refractory Sand	Palmerton sandstone	Silica for cement manufacture Mineral wool Construction aggregate Refractory sand Sand for golf course traps	See Sevon (1970) and Lash and others (1984) for geology. See Berkheliser (1985, in press) for analysis.
<u>SLAG</u>						
<u>Bucks County</u>						
402	Warner Company Loudersback Road, R. D. Morrisville, PA 19067	Office (215) 667-9700 Site (215) 736-2571	Slag dump Morrisville plant	Man-made slag	Cement extender Construction aggregate Lightweight aggregate	Source of slag is U. S. Steel blast furnace at Morrisville. Warner manufactures pellet- ized, granulated pellets and air-cooled slag products.
<u>COAL-MINE ROCK DUST</u>						
<u>DOLOMITE</u>						
<u>York County</u>						
11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	Ledger dolomite	Coal-mine rock dust Refractory products Pulverized dolomite for agr Construction aggregate Fillers	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.
<u>LIMESTONE</u>						
<u>Bedford County</u>						
16	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 652-5121	Quarry Ashcom	Nealmont(?) limestone Linden Hall(?) limestone	Coal-mine rock dust Construction aggregate Pulverized limestone for agr	Also see "Construction Aggregate" and "Agricultural Minerals."
<u>Blair and Huntingdon Counties</u>						
21	Narehood Limestone Company (New Enterprise Stone and Lime Co.) P. O. Box C Tyrone, PA 16686	Office (814) 766-2211 Site (814) 684-2570	Quarry	Coburn limestone Bellefonte dolomite	do.	Selectively mines up to eight formations. Coal-mine rock dust is manufactured from the Linden Hall(?) Formation. See Rones (1969).

**COAL-MINE ROCK DUST
LIMESTONE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>COAL-MINE ROCK DUST (cont.)</u>						
LIMESTONE (cont.)						
Butler County						
23	Allegheny Mineral Corporation (Snyder Associated Companies) P. O. Box 10 Kittanning, PA 16201	Office (412) 548-8101 Plant (412) 794-6911	Quarry Slippery Rock	Vanport limestone	Coal-mine rock dust High-calcium limestone Pulverized limestone for agr Fluxstone Construction aggregate	
24	do.	Office (412) 548-8101 Plant (412) 735-2088	Quarry Harrisville	do.	do.	See O'Neill (1976) for analysis and thickness.
Centre County						
27	Warner Company P. O. Box 448 Bellefonte, PA 16823	Office (215) 667-9700 Site (814) 355-4761	Underground mine Bell	Linden Hall limestone	Coal-mine rock dust High-calcium quicklime High-calcium hydrate lime Pulverized limestone for agr Fluxstone	Mining the Valentine Member. See Berkheiser (1985). Also see "Gentzel quarry."
28	Con Lime, Inc. P. O. Box 118 Bellefonte, PA 16823	Office (814) 355-4744	Underground mine	do.	Coal-mine rock dust High-calcium limestone High-calcium quicklime Fluxstone for glass Pulverized limestone for agr	Mining the Valentine Member. Formerly owned by Domtar. Miller (1934) summarized the geology of the Nittany Valley and the Valentine limestone.
<u>CONSTRUCTION AGGREGATE</u>						
ARGILLITE AND HORNFELS						
Adams County						
418	Valley Quarries, Inc. (New Enterprise Stone and Lime Co.) 3587 Stone Quarry Road Chambersburg, PA 17201	Office (717) 264-4178 Site (717) 334-3165	Quarry Gettysburg	Gettysburg argt and hfls	Apprvd coarse agg Apprvd antiskid SRL H	Previously known as H. T. Campbell's Teeter quarry. See Hoff (1978) for geology and mineralogy.
Berks County						
421	Pottstown Trap Rock Quarries, Inc. 1 Quarry Road Douglassville, PA 19518	Office (215) 326-4843 Site (215) 326-5921	Quarry Douglassville	Brunswick argillite	Apprvd coarse agg Railroad ballast SRL H	Very near diabase contact.

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
			Name operation	Lithology		
CONSTRUCTION AGGREGATE (cont.)						
ARGILLITE AND HORNFELS (cont.)						
Bucks County						
414	H & K Materials Division Haines and Kibblehouse, Inc. P. O. Box 1 Chalfont, PA 18914	Office (215) 362-2600 Plant (215) 822-2200	Quarry H & K Materials	Lockatong argillite Brunswick sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Willard and others (1959).
415	Blooming Glen Quarry, Inc. P. O. Box 331 Blooming Glen, PA 18911	Office (215) 362-2600 Site (215) 257-5188	Quarry	Lockatong argillite	do.	do.
416	Miller Quarries, Inc. 1371 W. Street Road Warminster, PA 18974	Office (215) 675-0111 or (215) 675-7877	do.	do.	Apprvd coarse agg Apprvd fine agg	do.
422	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Quarry Rush Valley No. 2	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Willard and others (1959) for geology. See Hoover and others (1971) for analyses. Some lightweight-aggregate potential.
423	do.	Office (215) 333-8000	Quarry Rush Valley No. 1	do.	do.	See Willard and others (1959) for geology.
424	do.	Office (215) 333-8000	Quarry Warrington	do.	do.	See Willard and others (1959) for geology, Hoover and others (1971) for analyses.
425	do.	Office (215) 333-8000	Quarry Eureka	do.	do.	do.
426	Edison Quarry R. D. 3 Doylestown, PA 18901	Site (215) 348-4382	Quarry Edison	do.	Coarse aggregate	do.
427	Bucks County Crushed Stone R. D. 2, Box 153 Ottsville, PA 18942	Office (215) 257-6818 Site (215) 847-5211	Quarry	do.	Apprvd coarse agg Apprvd fine agg	See Willard and others (1959) for geology.
428	M & M Stone Company P. O. Box 189 Telford, PA 18969	Office (215) 723-1177 Site (215) 723-4395	Quarry Telford	do.	do.	Some possible Brunswick silt- stone also being mined. See Willard and others (1959) for geology.

CONSTRUCTION AGGREGATE
ARGILLITE AND HORNFELS

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
ARGILLITE AND HORNFELS (cont.)						
Bucks County (cont.)						
431	Colony Materials (Haines and Kibblehouse, Inc.) P. O. Box 135 Point Pleasant, PA 18950	Office (215) 362-2600 Site (215) 345-9210	Quarry Colony Materials	Lockatong argillite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Willard and others (1959) for geology. Some potential for lightweight aggregate. See Hoover and others (1971) for analysis.
432	Better Materials Corporation Swamp Road and Route 232 Penns Park, PA 18943	Office (215) 598-3152	Quarry Better	Lockatong argillite Brunswick shale	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast Rip-rap	See Willard and others (1959) for geology.
Lancaster County						
433	Silver Hill Quarries, Inc. R. D. 1 Narvon, PA 17555	Office (215) 445-7430	Quarry Silver Hill	Hammer Creek argillite	Coarse aggregate Railroad ballast	
Montgomery County						
417	M & M Stone Company P. O. Box 189 Telford, PA 18969	Office (215) 723-1177 Site (215) 256-8813	Quarry Harleysville	Lockatong argillite	Apprvd coarse agg Apprvd fine agg	
434	Montgomery Stone Company, Inc. Upper State Road Montgomeryville, PA 18936	Office (215) 275-7100 Site (215) 855-5363	Quarry Montgomery Stone	do.	do.	
435	Pottstown Trap Rock Quarries, Inc. R. D. 3 Pottstown, PA 19404	Site (215) 326-4843	Quarry Sanatoga	do.	do.	
436	Kibblehouse Quarries, Inc. 234 East Dekalb Pike King of Prussia, PA 19406	Office (215) 265-2500 Site (215) 234-4522	Quarry Kibblehouse	Brunswick hornfels	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
437	Gill Quarries, Inc. Box 187 Fairview Village, PA 19409	Office (215) 279-2460	Quarry E. Norriton	Lockatong argillite	do.	
438	do.	Site (215) 646-1818	Quarry Springhouse	do.	do.	See Hoover and others (1971) for analysis.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
ASH						
Allegheny County						
429	Rochez Brothers, Inc. P. O. Box 177 East Pittsburgh, PA 15112	Office (412) 351-3666	Ash dump Braddock	Man-made coal ash	Apprvd antiskid	Source of material is the Duquesne Power and Light Company plant at Cheswick, Pa.
Armstrong County						
441	National Mineral Corporation c/o Charles D. Meadowcroft 520 North Sixth Street Indiana, PA 15701	Office (412) 349-5612	Power plant Keystone	Man-made bottom ash	do.	
Indiana County						
442	National Mineral Corporation c/o Charles D. Meadowcroft 520 North Sixth Street Indiana, PA 15701	Office (412) 349-5612	Power plant Homer City	do.	do.	
450	do.	Office (412) 349-5612	Power plant Conemaugh	do.	do.	
Montour County						
439	Pennsylvania Power and Light Co. 2 North Ninth Street Allentown, PA 18101	Berwick (717) 770-5151	Power plant Washingtonville	do.	do.	
Northumberland County						
430	Mudry Brothers Trucking 600 Scott Street Kulpmont, PA 17834	Office (717) 373-3353	Ash dump Merck plant dump	Man-made coal ash	do.	
Tioga County						
449	Hamilton Trucking Company, Inc. 24 Granger Street Blossburg, PA 16912	Office (717) 638-2101	Ash dump	do.	do.	Coal ash is back-hauled from power plants in New York.
York County						
440	Pennsylvania Power and Light Co. 2 North Ninth Street Allentown, PA 18101	Site (215) 266-3691	Power plant Brunner Island	Man-made bottom ash	do.	

CONSTRUCTION AGGREGATE DIABASE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
DIABASE						
Adams County						
76	Wilson Clapsaddle Sand Quarry 1790 Baltimore Pike Gettysburg, PA 17325	Office (717) 334-1344	Open pit	York Haven diabase (sand)	Fine aggregate Borrow and general fill Topsoil	See Wood (1980) for geology. Mining sand residuum over diabase. Borrow and general fill is clay.
Berks County						
444	General Crushed Stone Company P. O. Box 237 Morgantown, PA 19543	Office (215) 253-4271 Plant (215) 286-5121	Dump recovery Morgantown	York Haven diabase	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	Crushes waste rock from the former Bethlehem Steel Co. Grace mine (magnetite). Some mixed sedimentary rocks are also present.
445	Warner Company P. O. Box 188 Birdsboro, PA 19508	Office (215) 667-9700 Site (215) 582-8775	Quarry John T. Dyer	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	Traditional source of high- quality railroad ballast.
Bucks County						
446	General Crushed Stone Company P. O. Box 96 Quakertown, PA 18951	Office (215) 253-4271 Site (215) 536-0440	Quarry Rock Hill	do.	do.	do.
DOLomite						
Berks County						
3	Eastern Industries, Inc. R. D. 1, Box 459 Kutztown, PA 19530	Office (215) 395-5811 Site (215) 683-7400	Quarry Kutztown	Allentown dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized dolomite for agr	See Miller (1934) for a description and analysis of the abandoned Topton Furnace quarry located 0.5 mile NW in the Stonehenge Formation.
472	Berks Products Corporation P. O. Box 421 Reading, PA 19603	Office (215) 374-5131 Plant (215) 987-6291	Quarry	Ontelaunee dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
Bucks County						
447	New Hope Crushed Stone and Lime Co. P. O. Box 246 New Hope, PA 18938	Office (215) 862-5288	Quarry New Hope	Allentown dolomite	do.	See Willard and others (1959) for geology and O'Neill (1964) for analysis.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
DOLOMITE (cont.)						
Centre County						
459	Black Hawk Limestone, Inc. R. D. 1, Box 30 Centre Hall, PA 16828		Quarry Black Hawk	Bellefonte dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL G
Chester County						
4	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 647-4094	Quarry Catanach	Ledger dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Fluxstone Pulverized dolomite for agr	SRL H
448	General Crushed Stone Company P. O. Box 152 Downingtown, PA 19335	Office (215) 253-4271 Site (215) 269-1710	Quarry Downingtown	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	SRL H
451	Warner Company R. D. 3, Box 10A Malvern, PA 19355	Office (215) 667-9700 Site (215) 644-7100	Quarry Cedar Hollow	do.	Apprvd coarse agg Apprvd antiskid Masonry lime	SRL H See Miller (1934) for geologic description and chemical analysis.
Fulton County						
452	H. B. Mellott Estate, Inc. 328 North Second Street McConnellsburg, PA 17233	Office (717) 485-3171 Site (717) 485-3281	Quarry Big Cove Tannery	Nittany dolomite Stonehenge, Larke dolomite	Apprvd coarse agg Apprvd fine agg	SRL L
Lancaster County						
5	Compass Quarries, Inc. 47 McIlvaine Road Paradise, PA 17562	Office (717) 442-4191	Quarry	Vintage dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized dolomite for agr High-magnesium dolomite	SRL H See Miller (1934) under "Bellefont Quarries" for description and chemical analysis.
453	Blue Ball Stone Company 405 S. DuPont Road Wilmington, DE 19805	Office (302) 999-0271 Site (717) 354-9988	Quarry Blue Ball	Zocks Corner dolomite	Apprvd coarse agg Apprvd antiskid	SRL M See O'Neill (1964) for analysis.

CONSTRUCTION AGGREGATE
DOLOMITE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
DOLOMITE (cont.)						
Lebanon County						
42	Calcite Quarry Division Corson Lime Company P. O. Box 629 201 Prescott Road Lebanon, PA 17042	Office (717) 273-3754	Quarry	Ontelaunee dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Gray and others (1958) for geology, O'Neill (1976) for analysis, and Gray (1952) for structural details of this quarry.
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	See O'Neill (1976) for analy- ses, Sims (1968) for descrip- tion and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
Montgomery County						
6	Corson Lime Company Joshua Rd. and Stenton Ave. Plymouth Meeting, PA 19462	Office (800) 433-8852 Site (215) 828-4300	Quarries	Ledger dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Also see "Lime," "Fluxstone," "High-Magnesium Dolomite," and "Agricultural Minerals." See O'Neill (1964) for analy- sis.
7	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 279-6840	Quarry McCoy	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid High-magnesium dolomite Fluxstone	See Miller (1934) for geo- logic description and chem- ical analysis.
456	do.	Office (215) 884-8800 Site (215) 272-6090	Quarry Ivy Rock	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See O'Neill (1964) for chem- ical analysis, and Miller (1934) for geologic descrip- tion under "Lukens and Yerkes Quarry."
York County						
8	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 2	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized carbonates for agr	Also mines limestone nearby and sandstone east of York.
11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	do.	Apprvd fine agg Refractory products Pulverized dolomite for agr Fillers Coal-mine rock dust	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
DOLomite (cont.)						
York County (cont.)						
457	County Line Quarry, Inc. South Front Street Wrightsville, PA 17368	Plant (717) 252-1584	Quarries	Vintage dolomite	Apprvd coarse agg Apprvd antiskid	Selective mining of more than one formation. Also see "Sandstone."
458	Codorus Stone and Supply Co., Inc. R. D. 22 York, PA 17402	Site (717) 757-3897	Quarry Emigsville	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	Daily operation of the quarry including crushing is sub- contracted to the General Crushed Stone Company.
461	York Building Products Company, Inc. Thomasville, PA 17364	Office (717) 848-2831 Site (717) 792-3260	Quarry Lincoln Stone	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	For geology see Stose and Jonas (1939).
GNEISS AND RELATED ROCKS						
Berks County						
462	Martin Stone Quarries, Inc. P. O. Box 297 Bechtelsville, PA 19505	Office (215) 367-2011	Quarries	"Pochuck" gneiss	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Clayey ovb as liners and fill	Selective mining of more than one formation. See "Sand- stone." See Buckwalter (1959). for geology and Pa. Geol. Surv. (1984) for description.
Chester County						
464	Devault Crushed Stone Company, Inc. P. O. Box 77 Devault, PA 19432	Office (215) 644-2555 Site (215) 644-9250	Quarry	Precambrian granitic gneiss	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	
Delaware County						
463	General Crushed Stone Company P. O. Box 57 Glen Mills, PA 19342	Office (215) 253-4271 Site (215) 459-2492	Quarry Glen Mills	Baltimore gneiss	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap Railroad ballast	See Parrott (1974) for geo- logical description. Felsic to mafic gneiss and calc- silicates.

CONSTRUCTION AGGREGATE LIMESTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE						
Adams County						
467	Valley Quarries, Inc. (New Enterprise Stone and Lime Co.) 3587 Stone Quarry Road Chambersburg, PA 17201	Office (717) 264-4178 Site (717) 642-8535	Quarry Fairfield	Gettysburg limestone cgl Beekmantown Group dolomite	Apprvd coarse agg SRL L Apprvd fine agg	Mining Mesozoic limestone fanglomerates and possibly underlying Beekmantown car- bonates. See Stose and Bascom (1929) for geology.
Armstrong County						
12	M & M Lime Company R. D. 1 Worthington, PA 16262	Office (412) 297-3958	Underground and stripping	Vanport limestone	Apprvd coarse agg SRL L Pulverized limestone for agr	See O'Neill (1974) for general description.
13	Manor Minerals, Inc. 265 South Jefferson Street Kittanning, PA 16201	Office (412) 548-5195 Site (412) 354-3770	Quarry Mowrey & G. Girty	do.	do.	
14	do.	Office (412) 548-5195	Quarry Garretts Run	do.	Apprvd antiskid Pulverized limestone for agr	See O'Neill (1974) for esti- mated thickness.
468	Western Allegheny Limestone Corp. Box 981 Kittanning, PA 16201	Office (412) 548-1551 Site (412) 297-3418	Quarry Lutton	do.	Apprvd coarse agg SRL L Fine aggregate Apprvd antiskid	
471	Bradys Bend Corporation 648 East Washington Street New Castle, PA 16101	Office (412) 652-5566 Plant (412) 526-3353	Underground mine Kaylor No. 3	do.	Apprvd coarse agg SRL L	See O'Neill (1974) for esti- mate of thickness and typical analysis.
Bedford County						
15	Bedford County Stone and Lime, Inc. R. D. 1 New Paris, PA 15554	Office (814) 839-2249	Quarry	Keyser limestone	Apprvd coarse agg SRL L Pulverized limestone for agr	Also see "Agricultural Minerals."
16	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 652-5121	Quarry Ashcom	Coburn limestone Loysburg limestone	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid Pulverized limestone for agr Coal-mine rock dust	Selectively mines the Neal- mont and Benner Fms. for high-calcium products. Mines range of Coburn-Loysburg; includes minor limy dolomite.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Blair County						
474	Grannas Brothers Stone and Asphalt Company, Inc. R. D. 2, Box 309 Holidaysburg, PA 16648	Office (814) 695-5021	Quarry	Keyser-Tonoloway Limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL L
475	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 224-2121	Quarry Canoe Creek	Keyser Limestone Tonoloway Limestone	do.	Tonoloway only in floor of NW part of quarry.
Bradford County						
476	Reginald E. Stevens R. D. 2 Towanda, PA 18848	Site (717) 265-5388	Quarry	Lock Haven Limestone	Rip-rap	See Miller (1934) for description of Devonian carbonates up to 40 feet thick.
Butler County						
22	Winfield Lime and Stone Co., Inc. R. D. 2 Cabot, PA 16023	Office (412) 352-2640	Underground mine Winfield	Vanport Limestone	Apprvd coarse agg Pulverized limestone for agr	SRL L
23	Allegheny Mineral Corporation (Snyder Associated Companies) P. O. Box 10 Kittanning, PA 16201	Office (412) 548-8101 Plant (412) 794-6911	Quarry Slippery Rock	do.	Apprvd coarse agg Apprvd fine agg Pulverized limestone for agr High-calcium limestone Coal-mine rock dust	SRL L
24	do.	Office (412) 548-8101 Plant (412) 735-2088	Quarry Harrisville	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized limestone for agr High-calcium limestone	See O'Neill (1976) for analysis and thickness.
Cambria County						
478	C B S Mining, Inc. 325 Fayette Street Johnstown, PA 15905	Office (814) 535-4051	Quarry Cramer Pike	Loyalhanna Limestone	Coarse aggregate Fine aggregate	Also see "Sandstone."

CONSTRUCTION AGGREGATE
LIMESTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Centre County						
481	Neidigh Brothers Limestone Co., Inc. 850 Boalsburg Rd. Boalsburg, PA 16827	Office (814) 466-6216	Quarry Boalsburg	Coburn limestone Nealmont limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining Coburn through Neal- mont, undivided. See O'Neill (1964) for analysis. See Miller (1934) for description of Oak Hall Lime & Stone Co.
482	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16804-0155	Office (814) 238-5071	Quarry Jacksonville No. 5	Coburn limestone Loysburg limestone	Apprvd coarse agg Fine aggregate	Mining Coburn through Loys- burg Formations, undivided. Produces intermittently.
483	Glenn O. Hawbraker, Inc. (Central Valley Aggregates) 325 West Aaron Drive State College, PA 16801	Office (814) 237-1444 Site (814) 359-3411	Quarry Whiterock	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining Coburn through Loysburg Formations, un- divided. Interval contains the Valentine Mbr. of the Linden Hall (Benner) Fm.
484	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16801	Office (814) 238-5071	Quarry Oak Hall No. 46	Coburn shaly limestone Nealmont shaly limestone	Apprvd coarse agg Type C	Mining the Coburn through Nealmont Formations, un- divided.
Clarion County						
479	Manor Minerals, Inc. 265 South Jefferson Street Kittanning, PA 16201	Office (412) 548-5195	Quarry Redbank Township	Vanport limestone	Apprvd antiskid	
Clinton County						
485	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889	Office (717) 524-2251	Quarry Loganton	Linden Hall limestone Loysburg limestone	Apprvd coarse agg Apprvd antiskid Type C	Mining Linden Hall through Loysburg Formations, un- divided. Possible inter- mittent production.
486	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 726-4511	Quarry Salona	Coburn limestone Loysburg limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid SRL M	Mining Coburn through Loys- burg Formations, undivided. See O'Neill (1964) for analysis.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Columbia County						
487	Lycoming Silica Sand Company (Koppers Company, Inc.) P. O. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 784-7043	Quarry Mausdale	Keyser limestone Tonoloway limestone	Apprvd coarse agg SRL G Apprvd fine agg Apprvd antiskid	Keyser and Tonoloway are undivided. See O'Neill (1964), Montour County, Mausdale quarry, for analysis.
Cumberland County						
31	Locust Point Quarries, Inc. P. O. Box 1280 Mechanicsburg, PA 17055	Site (717) 766-9631	Quarry Locust Point	Rockdale Run limestone	Apprvd coarse agg SRL L Pulverized limestone for agr	See Root (1978) for geology and chemical analysis.
32	Valley Quarries, Inc. (New Enterprise Stone and Lime Co.) 3587 Stone Quarry Road Chambersburg, PA 17201	Office (717) 264-4178 Site (717) 532-2312	Quarry Shippensburg	Stonehenge limestone Rockdale Run limestone and dol	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid Pulverized limestone for agr	See O'Neill (1964) for analysis.
488	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511 Site (717) 766-7676	Quarry Silver Spring	Chambersburg limestone	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid	See Root (1978) for geology.
491	Hempt Brothers, Inc. 205 Creek Road Camp Hill, PA 17011	Office (717) 737-3411	Quarry Camp Hill	St. Paul Group limestone	do.	Has some high-calcium and whiting potential (Berk- heiser, 1983). See Root (1977) for geology.
Fayette County						
492	Marsolino Coolspring Quarry, Inc. P. O. Box X Uniontown, PA 15401	Office (412) 438-4581 Site (412) 437-5200	Quarry and underground Coolspring	Loyalhanna quartzose ls	Apprvd coarse agg SRL H Apprvd fine agg Railroad ballast Rip-rap	See Miller (1934).
493	Commercial Stone Company, Inc. P. O. Box 208 Beile Vernon, PA 15012	Office (412) 929-5400 Site (412) 626-0080	Quarry Rich Hill	do.	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid	Also mines underlying sand- stone.
494	F R G Industries, Inc. (Davison Stone Company) McCoy Hollow Road Connellsville, PA 15425	Office (412) 362-4900 Site (412) 626-0400	Quarry Connellsville	do.	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid Railroad ballast	See O'Neill (1964) for anal- ysis as "Connellsville Blue- stone Company." Hickok and Moyer (1940) described the Loyalhanna ls. and quarries.

**CONSTRUCTION AGGREGATE
LIMESTONE**

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Fayette County (cont.)						
495	Arthur Sexton, Jr. R. D. 1, Box 385 Smithfield, PA 15478	Office (412) 564-2928	Quarry	Loyalhanna quartzose ls	Coarse aggregate Fine aggregate	Proposed limestone quarry. Development pending public hearings.
496	Standard Aggregates, Inc. (Standard Slag) P. O. Box 1378 Youngstown OH 44501	Office (412) 885-8600 Site (412) 564-5970	Quarry Laurel Run	do.	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid Rip-rap	Also mines the underlying Burgoon Sandstone. Hickok and Moyer (1940) described other Loyalhanna quarries in Fayette County.
Franklin County						
33	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (717) 349-2412	Quarry Dry Run	Chambersburg limestone	Apprvd coarse agg SRL L Apprvd antiskid Pulverized limestone for agr	See "Agricultural Minerals."
489	Valley Quarries, Inc. (New Enterprise Stone and Lime Co.) 3587 Stone Quarry Road Chambersburg, PA 17201	Office (717) 264-4178	Quarry Chambersburg	Stonehenge limestone	Apprvd coarse agg SRL G Apprvd fine agg Apprvd antiskid	See O'Neill (1964) for chem- ical analysis. Also see Root (1971) for geology and partial chemical analyses.
Fulton County						
34	H. B. Melloitt Estate, Inc. 328 North Second Street McConnellsburg, PA 17233	Office (717) 485-3171 Site (717) 294-3281	Quarry Charlton	Keyser limestone Tonoloway limestone	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid Railroad ballast Pulverized limestone for agr	Also mines Ridgeley. See "Sandstone."
Greene County						
490	P. W. Ryan and Sons, Inc. P. O. Box 1079 City Highway 14 Janesville, WI 53547	Office (608) 752-3633	Quarry Dille Run	Washington limestone Greene limestone	Coarse aggregate Fine aggregate Railroad ballast	Quarry under development. PennDOT and Conrail approvals reported to be pending.
Huntingdon County						
35	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 627-1670	Quarry McConnellstown	Keyser limestone Tonoloway limestone	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid Pulverized limestone for agr	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Huntingdon County (cont.)						
497	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 447-3295	Quarry Orbisonia	Coburn limestone Loysburg limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	Covers interval of Coburn through Loysburg. See "Grove quarry" in Miller (1934).
498	do.	Office (814) 766-2211 Site (814) 627-1670	Quarry Hesston	Keyser limestone Tonoloway limestone	Coarse aggregate	
Juniata County						
501	D. E. Smith, Inc. R. D. 2 Box 105 Mifflintown, PA 17059	Office (717) 436-2151 Plant (717) 463-2414	Quarry Lost Creek Ridge	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Fail and Wells (1974).
Lawrence County						
504	McQuiston Coal Company 120 East Maitland Lane New Castle, PA 16105	Site (412) 667-8011	Quarry Midland	Vanport limestone	Apprvd coarse agg Apprvd fine agg	See DeWolf (1929) for geology.
505	Vanport Stone, Inc. P. O. Box 144 Edinburg, PA 16116	Office (412) 667-7717 Site (412) 535-4304	Strip mine No. 3, West Pgh.	do.	Apprvd coarse agg	See O'Neill (1976) for thickness estimates and DeWolf (1929) for geology.
Lebanon County						
506	H. J. Smith and Son, Inc. R. D. 1, Box 200 Annville, PA 17003	Site (717) 867-2571 or (717) 867-4617	Quarry	Buffalo Springs limestone Hamburg sequence "blue cgl."	Apprvd coarse agg Apprvd fine agg	Operates two nearby quarries in this formation.
Lehigh County						
507	Eastern Industries, Inc. South Church Street Whitehall, PA 18052	Office (215) 395-5811 Site (215) 262-5574	Quarry Whitehall	Jacksonburg limestone	Apprvd coarse agg	Includes argillaceous (shaly) limestone.

CONSTRUCTION AGGREGATE
LIMESTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Lycoming County						
508	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 584-2153	Quarry Lime Bluff	Keyser limestone Tonoloway limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Keyser and Tonoloway are undivided. See Fail (1979) for geology and O'Neill (1964) for analysis.
509	do.	Office (717) 368-2481 Site (717) 745-7575	Quarry Pine Creek	Coburn limestone Hatter limestone	Apprvd coarse agg Apprvd fine agg	See Fail and others (1977a) for geology and analyses. Includes chemically pure Linden Hall Formation. Mining Coburn through Hatter.
Mifflin County						
511	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889-0177	Office (717) 524-2251 Site (717) 667-2015	Quarry Nagney	Linden Hall limestone Loysburg limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See O'Neill (1964) under "Bethlehem Limestone Co." for analysis and Miller (1934) for geologic description and analyses.
512	do.	Office (717) 524-2251 Site (717) 248-2791	Quarry Oerry Township	Keyser limestone	do.	
513	do.	Office (717) 524-2251	Quarry McVeytown	Keyser limestone Tonoloway limestone	Coarse aggregate Apprvd antiskid	Mining Keyser and Tonoloway Formations, undivided. Possible intermittent production.
Montour County						
43	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 437-2041	Quarry Milton	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized limestone for agr	Keyser and Tonoloway are undivided. See Way (in press) for geology.
515	Royer's Lime Quarries R. D. 2 Milton, PA 17847	Office (717) 742-3127	do.	do.	Apprvd coarse agg SRL L	See Way (in press) for geology.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Northumberland County						
44	Meckley's Limestone Products, Inc. R. D. 1 Herndon, PA 17830	Site (717) 758-3001	Quarry Mandata	Keyser Limestone	Apprvd coarse agg SRL M Apprvd fine agg Apprvd antiskid Pulverized limestone for agr Fillers	See Fail (1973) and Hoskins (1976) for description, geology, and analyses. Operator custom blends and grinds.
Perry County						
516	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17101	Office (717) 233-4511	Quarry Dromgold	do.	Coarse aggregate Fine aggregate	See Dyson (1967) for geology. Intermittent production.
Snyder County						
45	National Limestone Quarry, Inc. Box 397 Middleburg, PA 17842	Site (717) 837-1635	Quarry Paxtonville	do.	Apprvd coarse agg SRL L Apprvd antiskid Pulverized limestone for agr Fillers	See O'Neill (1964) for analysis.
46	do.	Office (717) 837-1635	Quarry Mt. Pleasant Mills	do.	Apprvd coarse agg SRL L Apprvd fine agg Pulverized limestone for agr Poultry grit	
Somerset County						
48	Keystone Lime Company, Inc. Springs, PA 15562	Office (814) 662-2711	Quarry Eichorn	Deer Valley Limestone Loyalhanna Limestone	Apprvd coarse agg SRL L Apprvd coarse agg SRL H Pulverized limestone for agr	Selectively mines the Deer Valley (SRL L) principally for agricultural limestone, and the Loyalhanna (SRL H) for construction aggregate.
518	do.	Office (814) 662-2711	Quarry Galley	Loyalhanna quartzose ls Burgoon sandstone	Apprvd coarse agg SRL H Apprvd coarse agg SRL L Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Selective mining of 3 units, Loyalhanna (SRL H), Deer Val- ley (SRL L), Burgoon (SRL E). Deer Valley nearly gone, used for agr. See Flint (1965).
521	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211	Quarry Bakersville	do.	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid Railroad ballast	Selectively mines the Loyal- hanna and Burgoon Formations. Also see "Sandstone."

CONSTRUCTION AGGREGATE
LIMESTONE

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Susquehanna County						
522	Ashcraft Excavating Company, Inc. Pennsylvania Avenue Apalachin, NY 13732	Office (607) 625-2011 or (607) 625-2118	Quarry Ashcraft	Catskill limestone Catskill sandstone	Rip-rap Gabion stone	Rare known occurrence of limestone in the Catskill Formation. See Krajewski and Cuffey (1976).
Union County						
523	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889	Office (717) 524-2251	Quarry Winfield	Keyser limestone Tonoloway limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Early traditional source of lime in central Pennsylvania.
524	David E. Iddings 900 Chestnut Street Mifflinburg, PA 17844	Site (717) 966-1551	Quarry	Keyser limestone	Apprvd coarse agg Type C	Mapped as Keyser and Tonolo- way Formations, undivided.
Venango County						
525	Richland Stone, Inc. R. D. 1 Emlenton, PA 16373	Office (814) 797-1271	Quarry H. A. Sheesley	Vanport limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	
Westmoreland County						
526	Warner Company P. O. Box 173 Blairsville, PA 15717	Office (215) 667-9700 Plant (412) 459-6031	Quarry Torrance	Loyalhanna quartzose ls	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast Rip-rap	See Miller (1934) and Stone (1932).
527	Commercial Stone Company, Inc. P. O. Box 208 Belle Vernon, PA 15012	Site (412) 929-5400	Quarry Finley	Monongahela Group limestone	Coarse aggregate Fine aggregate Apprvd antiskid	Reported to be mining the Benwood Limestone.
528	Davison Stone Company (Davison Sand and Gravel Company) R. D. 4, Bethel Church Road Latrobe, PA 15650	Office (412) 362-4900 Site (412) 539-8281	Quarry Baggaley	Loyalhanna quartzose ls	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
531	Davison Stone Company (Davison Sand and Gravel Company) Third Avenue and Fourth Street New Kensington, PA 15068	Office (412) 362-4900	Quarry Grays Station	do.	do.	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE (cont.)						
Westmoreland County (cont.)						
532	Davison Stone Company (Davison Sand and Gravel Company) Chestnut Ridge Whitney, PA 15693	Site (412) 423-3601	Quarry Whitney	Loyalhanna quartzose ls	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	See Shaffner (1963) for geology.
533	Latrobe Construction Company P. O. Box 150 Latrobe, PA 15650	Office (412) 537-5566	Underground mine Longbridge	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	See Miller (1934) for description and analysis of Longbridge quarries.
York County						
51	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 1	Kinzers limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized carbonates for agr	Also mines dolomite nearby and sandstone east of York.
LIMESTONE AND DOLOMITE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers limestone Ledger dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid High-Ca ls and high-Mg dol High-calcium quicklime	Selectively mines a geologically complex setting. See Berkheiser (1983) for analysis and Hole (1968) for description and analyses.
Berks County						
473	Berks Products Corporation P. O. Box 421 Reading, PA 19603	Office (215) 374-5131 Site (215) 683-3302	Quarry Kutztown	Stonehenge dolomite and ls	Apprvd coarse agg Apprvd antiskid	See MacLachlan (1979) for geology. Could also be mining the Allentown and Rickenbach Fms. See O'Neill (1964) for anal. as "Eastern Lime."
534	Eastern Industries, Inc. R. D. 1, Box 265 Oley, PA 19547	Office (215) 395-5811 Site (215) 689-9551	Quarry Oley	Anville limestone Ontelaunee dolomite and ls	Apprvd coarse agg Apprvd fine agg Apprvd antiskid High-calcium limestone Cement manufacture	See MacLachlan (1983) for geology, Smith (1977) for geology and partial analysis, and O'Neill (1964) for analysis.
535	Berks Products Corporation P. O. Box 421 726 Spring Street Reading, PA 19603	Office (215) 374-5131	Quarry Temple	Allentown limestone and dol	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See MacLachlan (1979) for geology. Mining the Muhlenberg Mbr. See O'Neill (1964) for analysis.

CONSTRUCTION AGGREGATE
LIMESTONE AND DOLOMITE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE AND DOLOMITE (cont.)						
Berks County (cont.)						
536	E. J. Breneman, Inc. P. O. Box 478 Pottstown, PA 19464	Site (215) 678-1913	Quarry	Epler limestone and dol	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid	See MacLachlan and others (1975) for geology and O'Neill (1964) for analysis.
Blair County						
17	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 224-2121	Quarry Roaring Spring	Coburn(?) limestone Axemann dolomite	Apprvd coarse agg SRL L & G Apprvd fine agg Apprvd antiskid Railroad ballast Pulverized limestone for agr	See Miller (1934). SRL L produced from Coburn through Loysburg or Axemann. SRL G and railroad ballast(?) pro- duced from the Bellefonte(?).
Blair and Huntingdon Counties						
21	Narehood Limestone Company (New Enterprise Stone and Lime Co.) P. O. Box C Tyrone, PA 16686	Office (814) 766-2211 Site (814) 684-2570	Quarry Narehood	Coburn limestone Bellefonte dolomite	Apprvd coarse agg SRL L Apprvd coarse agg SRL G Apprvd fine agg Apprvd antiskid Pulverized limestone for agr	Selectively mines eight fms., Coburn through Loysburg (SRL L) and Bellefonte (SRL G). See Roncs (1969) and Butts and others (1939).
Bucks County						
477	Bituminous Service Company Union and Pennsylvania Railroad West Chester, PA 19380	Office (215) 431-3500	Quarry Buckingham	Elbrook limestone and dol	Coarse aggregate Fine aggregate	See Willard and others (1959) for geology.
Centre County						
537	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16801	Office (814) 238-5071	Quarry Curtin Gap No. 39	Bellefonte dolomite Nittany limestone	Apprvd coarse agg SRL G Apprvd coarse agg SRL M Apprvd fine agg Apprvd antiskid	Selectively mines Bellefonte and Nittany, which produce SRL G aggregate, and the Axemann, which produces SRL M aggregate.
Cumberland County						
538	Bonny Brook Quarries (Union Quarries, Inc.) 102 Bonny Brook Road Carlisle, PA 17013	Office (717) 249-5012	Quarry	Zullinger limestone and dol	Apprvd coarse agg SRL M Apprvd fine agg Apprvd antiskid	See Root (1978) for geology.

CONSTRUCTION AGGREGATE
LIMESTONE AND DOLOMITE

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE AND DOLOMITE (cont.)						
Dauphin County						
541	Hempt Brothers, Inc. 205 Creek Road Camp Hill, PA 17011	Office (717) 737-3411 Site (717) 939-9586	Quarry Steelton	Epler limestone and dol	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See O'Neill (1964) for chemical analysis. Operator also mines a nearby slag dump (see "Slag").
542	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511 Site (717) 566-0222	Quarry Hummelstown	Ontelaunee dolomite and ls	do.	Some minor Epler and Annville on property.
Huntingdon County						
543	Warner Company R. D. 1, Box 93A Tyrone, PA 16686	Office (215) 667-9700 Site (814) 684-3180	Quarry Union Furnace	Coburn limestone Bellefonte dolomite	Apprvd coarse agg Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	Covers interval of Coburn through Bellefonte Formations. See Rones (1969) and Miller (1934). Coburn through Loysburg produce SRL L.
Lancaster County						
36	Martin Limestone, Inc. (New Enterprise Stone and Lime Co.) P. O. Box 550 Blue Ball, PA 17506	Office (717) 354-4125 Site (717) 354-4125	Quarry Weaverland	Buffalo Springs limestone and dol Stonehenge limestone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized carbonates for agr	See O'Neill and others (1965) for chemical analysis.
37	Lancaster Lime and Stone Corp. (Eastern Industries, Inc.) P. O. Box 30 930 Pointview Avenue Ephrata, PA 17552	Plant (215) 267-2864	Quarry Schoeneck	Myerstown limestone Ontelaunee dolomite	Apprvd coarse agg Pulverized carbonates for agr	Selectively mines the Myers-town and Ontelaunee for construction materials and the Annville for high-calcium products.
38	David M. Burkholder, Inc. (New Enterprise Stone and Lime Co.) R. D. 3 Ephrata, PA 17522	Office (717) 354-4306	Quarry Hinkletown	Epler dolomite	Apprvd coarse agg Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL M is blend of ls and dol. Mines Annville for high-calcium products and Epler for aggregate. See O'Neill (1964) for dolomite analysis.
55	Binkley and Ober, Inc. P. O. Box 7 East Petersburg, PA 17520	Site (717) 569-0441	Quarry Binkley and Ober	Buffalo Springs limestone and dol	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized carbonates for agr	See O'Neill (1964) for chemical analysis and Miller (1934) for geologic description.
56	Rohrer's Quarry, Inc. 16 Lititz Road Lititz, PA 17543	Office (717) 626-8541	Quarry Rohrer's	Epler limestone and dol	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Pulverized carbonates for agr	See O'Neill (1964) for analysis.

CONSTRUCTION AGGREGATE
LIMESTONE AND DOLOMITE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE AND DOLOMITE (cont.)						
Lancaster County (cont.)						
502	J. M. Brenner Company P. O. Box 622 Lancaster, PA 17604	Office (717) 393-1394	Quarry Brenner's	Conestoga limestone and dol	Apprvd coarse agg SRL M	
503	H. R. Miller Company, Inc. 1756 Wabank Road Lancaster, PA 17603	Office (717) 872-4631	Quarry	do.	Apprvd coarse agg SRL G Apprvd fine agg Apprvd antiskid	
544	A. G. Kurtz and Sons, Inc. R. D. 3 Denver, PA 17517	Office (215) 267-7591 Site (215) 267-7591	Quarry A. G. Kurtz & Sons	Epler limestone and dol	Apprvd coarse agg SRL H Apprvd fine agg Apprvd antiskid	
545	Union Quarries, Inc. Old Harrisburg Pike Rheems, PA 17570	Office (717) 249-5012 Site (717) 367-1080	Quarry Rheems	Epler dolomitic ls	Apprvd coarse agg SRL L Apprvd fine agg Apprvd antiskid	See Bricker and others (1960) for geology and structural setting.
546	J. Miller Eshelman and Son, Inc. Box 295 Landisville, PA 17538	Office (717) 898-2277	Quarry	Snitz Creek dolomite Buffalo Springs limestone	Apprvd coarse agg SRL M Apprvd fine agg Apprvd antiskid	See O'Neill (1964) for analysis and Wise and others (1968) for geology and description.
547	D. M. Stoltzfus and Son, Inc. Talmage, PA 17601	Office (717) 656-2411	Quarry Talmage	Zooks Corner dolomite and ls	Apprvd coarse agg SRL G Apprvd fine agg Apprvd antiskid	The Zooks Corner Formation is approximately equal to the Elbrook Formation. See O'Neill (1964) for analysis.
Lehigh County						
454	Lehigh Stone Company, Inc. R. D. 1 Coplay, PA 18037	Site (215) 799-3180	Quarry Ornrod	Epler dolomite and ls	Apprvd coarse agg SRL L	See O'Neill (1964) for analysis.
455	Eastern Industries, Inc. R. D. 1 Coplay, PA 18037	Office (215) 395-5811 Site (215) 799-2421	do.	do.	Apprvd coarse agg SRL M Apprvd fine agg Apprvd antiskid	
548	Roy Kern Quarry 2575 Main Street Schnecksville, PA 18078	Office (215) 799-3113 Plant (215) 395-2571	Quarry Roy Kern	Beekmantown Group limestone and dol	Coarse aggregate	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
LIMESTONE AND DOLOMITE (cont.)						
Lycoming County						
78	P Stone, Inc. P. O. Box 254 Jersey Shore, PA 17740	Office (717) 745-7144 Site (717) 745-7166	Quarry P Stone, Inc.	Loysburg limestone Loysburg dolomite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap Railroad ballast	See Faili and others (1977a) for geology. Borrow and general fill is clay.
Monroe County						
514	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16801	Office (814) 238-5071	Quarry Bossardsville	Decker calcareous ss Poxono Island limestone and dol	Apprvd coarse agg Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining Decker through Poxono Island Fms., undivided. Se- lective mining for aggregate, Bossardville limestone for SRL L, and Decker for SRL H.
Northampton County						
393	Keystone Portland Cement Company 7292 Park Dr., D. A. Bath, PA 18014	Site (215) 837-1881	Quarry	Ontelaunee limestone and dol	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Aggregate mining makes more rock available for cement production. Operates two quarries.
551	Eastern Industries, Inc. Tatamy Road Nazareth, PA 18064	Office (215) 395-5811 Site (215) 759-3334	Quarry Nazareth	Epler dolomite and ls	Apprvd coarse agg Apprvd fine agg	Has, in the past, stripped dolomite for Coply Cement, which is contiguous to the west.
Schuylkill County						
517	Huss Contracting Company P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Andreas	Bossardville limestone Poxono Island dolomitic ls	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	See Lash and others (1984) for description and geology.
SAND AND GRAVEL						
Allegheny County						
557	McCrady, Inc. Box 11566 Pittsburgh, PA 15238	Office (412) 362-0300	Open pit Harmarville	Quaternary glacial gravel	Coarse aggregate Fine aggregate	Described by O'Neill (1974) as a high-level glacial ter- race of Illinoian age.

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Armstrong County						
558	Davison Sand and Gravel Company River Road Adrian, PA 16210	Office (412) 362-4900 Plant (412) 548-5880	Plant Tarrtown	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Plant processes glacial outwash dredged from the Allegheny River pool 7.
561	Allegheny Sand, Inc. P. O. Box 544 Leechburg, PA 15656	Office (412) 344-9900 Site (412) 842-0281	Open pit Godfrey	do.	Bank sand	Floodplain of the Allegheny River. Glacial outwash (valley train).
562	Glacial Sand and Gravel Company P. O. Box 1022 Kittanning, PA 16201	Office (412) 548-8101	River dredging Bridgeburg plant	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Roofing material	Mapped as outwash valley trains and alluvium (Shepps and others, 1959). Dredging Allegheny River pool 7.
563	do.	Office (412) 548-8101	Open pit Tarrtown plant	do.	do.	Mapped as outwash valley trains and alluvium (Shepps and others, 1959). Mines two sites, Tarrtown Flat and Tarrtown Hill.
564	Davison Sand and Gravel Company Third Avenue and Fourth Street New Kensington, PA 15068	Office (412) 362-4900	Open pit Murphy's Bottom	do.	Coarse aggregate Fine aggregate	Possible intermittent pro- duction. Mining the flood- plain of the Allegheny River. Might be processed at Tarr- town or New Kensington.
Armstrong and Butler Counties						
565	Parker Sand and Gravel Company Box 34 Eau Claire, PA 16030	Site (412) 399-2727	Open pit	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Probably undifferentiated outwash-river-terrace and lake deposits.
Beaver County						
566	G B Sand Company, Inc. 1050 Frew Mill Road New Castle, PA 16101	Office (412) 658-9883	Open pit Dodd's	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Dry screened. Mapped as kames, kame terraces, kame moraines, and eskers, undif- ferentiated (Shepps and others, 1959).
568	Standard Aggregates, Inc. Box 117 Georgetown, PA 15043	Office (412) 281-6000 Plant (412) 573-9700	Open pit Georgetown	do.	Apprvd coarse agg Apprvd fine agg	Ohio River gravel outwash plain.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Beaver County (cont.)						
571	Darlington Ready Mix Company P. O. Box 440 Darlington, PA 16115	Office (412) 827-2544 or (412) 827-2979	Open pit Mott	Quaternary glacial gravel	Coarse aggregate Apprvd fine agg	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
572	Dravo Corporation 4800 Grand Avenue Neville Island Pittsburgh, PA 15225	Plant (412) 777-5850	Open pit and river dredging Georgetown	Quaternary glacial gravel Quaternary alluvium	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as low-level glacial terraces and outwash (O'Neill, 1974). Most production comes from pit and minor tonnage from dredging.
573	X-L Sand and Gravel Company Box 226 Industry, PA 15052	Office (412) 643-5171	Open pit No. 2 mine	Quaternary alluvium	Coarse aggregate Fine aggregate	Some glacial outwash is also probably present.
Bradford County						
574	State Aggregates, Inc. (Eastern Industries, Inc.) P. O. Box 3188 Wescosville, PA 18106	Office (717) 265-9191	Open pit Burns	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Outwash river terrace of the Susquehanna River.
575	State Aggregates, Inc. (Eastern Industries, Inc.) R. D. 5, Masonite Road Towanda, PA 18848	Office (215) 395-5811 Site (717) 265-9191	Open pit Towanda	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining floodplain of Susquehanna River, composed of glacial outwash and alluvium.
576	Wysox Sand and Gravel, Inc. P. O. Box 128 Wysox, PA 18854	Office (717) 265-6760	Open pit Wysox	do.	do.	do.
577	Ralph M. Cook Sand and Gravel R. D. 2, Box 140 Wysox, PA 18854	Office (717) 265-8014	Open pit	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Glacial outwash and possible kame material on the floodplain of Wysox Creek.
578	James W. Lamphere R. D. 1 Monroeton, PA 18832	Site (717) 265-3970	do.	do.	do.	Appears to be a kame-like deposit associated with Towanda Creek.
581	Stanton Asphalt Paving Sylvania, PA 16945	Office (717) 297-4048	Open pit Troy	do.	Coarse aggregate (bank-run)	Appears to be a kame-like deposit associated with Leonard Creek.

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Bradford County (cont.)						
582	Robert L. Storch R. D. 3 Troy, PA 16947	Office (717) 297-3176	Open pit	Quaternary glacial gravel	Coarse aggregate (bank-run)	Appears to be an outwash terrace deposit associated with the North Branch of Sugar Creek.
583	Carl Hill Construction, Inc. R. D. 1 Ulster, PA 18850	Site (717) 265-5507 or (717) 358-3232	Open pit Carl Hill Const.	do.	do.	Appears to be an outwash terrace of the Susquehanna River.
584	Lyon and Morgan R. D. 1 Troy, PA 16947	Office (717) 297-2017	Open pit	do.	do.	Appears to be a kame-like deposit associated with a tributary of Sugar Creek.
585	Dalrymple Gravel and Contracting Company, Inc. 1209 Upper Broadway Elmira, NY 14902	Site (717) 888-6891	Open pit Chemung	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining glacial outwash on the floodplain of the Chemung River.
586	Fred W. Courtright and Bruce E. Tolbert R. D. 1 Lawrenceville, PA 16929	Office (717) 537-2588	Open pit	do.	Coarse aggregate Fine aggregate	Probably mining a kame-like deposit associated with Seeley Creek.
Bucks County						
587	Silvi Concrete Products, Inc. 355 Newbold Road Fairless Hills, PA 19030	Office (215) 295-0777		Quaternary alluvium	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	River alluvium and glacial outwash of the Delaware River. See Willard and others (1959) for geology and description.
591	Warner Company Old Rt. 13 and Penn Valley Road Morrisville, PA 19067	Office (215) 667-9700 Site (215) 295-7193	Dredge west Side plant	Trenton gravel	Apprvd coarse agg Apprvd fine agg	See Willard and others (1959) for description of operations.
592	Durnan and Good, Inc. Upper Black Eddy, PA 18972	Office (215) 982-5441	Open pit Durnan and Good	Quaternary alluvium	Coarse aggregate Fine aggregate	Mining the Delaware River floodplain, composed of alluvium and stratified drift. See Drake and others (1961) for geology.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Bucks County (cont.)						
593	Delaware Valley Landscape Stone, Inc. Route 32 Lumberville, PA 18933	Office (215) 297-8133 Site (215) 982-5126	Open pit Delaware Valley	Quaternary alluvium	Coarse aggregate Apprvd fine agg Apprvd antiskid	Mining the Delaware River floodplain, composed of al- luvium and stratified drift. See Drake and others (1961) for geology.
594	Tulleytown Sand and Gravel Company (Eureka Stone Quarry, Inc.) 1731 Bristol Pike Morrisville, PA 19067	Office (215) 946-4593	Open pit Tulleytown plant	Quaternary glacial gravel	Apprvd fine agg	See Willard and others (1959) for description and geology. Mapped as outwash terraces and valley train material of the Delaware River.
Butler County						
589	H. W. Cooper Company R. D. 2 Slippery Rock, PA 16057	Office (412) 794-4451	Open pit Worth Township	do.	Coarse aggregate Apprvd fine agg	Mapped as kames, kame ter- races, and eskers, undif- ferentiated (Shepps and others, 1959).
715	Cooper Brothers, Inc. R. D. 2 Slippery Rock, PA 16057	Office (412) 794-4451	Open pits Scott Township	do.	Coarse aggregate Fine aggregate Concrete-block aggregate	Mines two pits near Harlans- burg. Mapped as kames, un- differentiated, and Kent end and ground moraine (Shepps and others, 1959).
Cameron County						
590	A. E. O'Block, Inc. 7890 Saltsburg Road Pittsburgh, PA 15239	Office (412) 793-3141	Open pit	Quaternary alluvium	Apprvd coarse agg Apprvd antiskid	Mining the floodplain of Sinnemahoning Creek.
595	Sinnemahoning Gravel Company P. O. Box 105 Sinnemahoning, PA 15861	Site (814) 546-2582	do.	do.	Coarse aggregate	Mining alluvium and possibly some glacial outwash of Sinnemahoning Creek.
Clarion County						
596	Herbert Ray Hepner Box 153 Parker, PA 16049	Office (412) 894-2243	Open pit Smokey No. 1	Quaternary alluvium Quaternary colluvium	Coarse aggregate Apprvd fine agg Apprvd antiskid	Mining colluvium and alluvium associated with Dunlap Creek.
597	Glacial Sand and Gravel Company P. O. Box 1022 Kittanning, PA 16201	Office (412) 548-8101	Open pits Parker plant	Quaternary sand and gravel	Apprvd coarse agg Apprvd antiskid	Mining outwash and alluvium associated with the Allegheny River. Possible intermittent production from two pits.

CONSTRUCTION AGGREGATE SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Clearfield County						
598	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16801	Office (814) 238-5071	Open pit Egypt No. 40	Quaternary alluvium	Coarse aggregate Fine aggregate	Intermittent production. Mines floodplain of the West Branch Susquehanna River. See Glover (1970) for geology.
Clinton County						
601	Herbert R. Imbt, Inc. P. O. Box 155 1750 West College Avenue State College, PA 16801	Office (814) 238-5071	Open pit Pine Creek No. 42	do.	Apprvd coarse agg Apprvd fine agg	Operation has intermittent production. Possible Keyser production from nearby bed- rock quarry? Exact location of gravel pit unknown.
Columbia County						
602	Frank M. Valeski 205 Legion Road Bloomsburg, PA 17815	Office (717) 356-7813	Open pit	do.	Fine aggregate	Minor Susquehanna River terrace south of Bloomsburg.
603	Bloomsburg Sand & Gravel Co., Inc. R. D. 2 Bloomsburg, PA 17815	Office (717) 784-1640	do.	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as mostly Olean out- wash and minor alluvium and Olean outwash, undif. (see In- ners, 1981). Forms low-level terraces and floodplains.
Crawford County						
146	Robert E. Watson R. D. 4, Box 283 Centerville, PA 16404	Office (814) 967-4975	do.	do.	Coarse aggregate (bank-run) Borrow and general fill Topsoil	Borrow and general fill is shale. Gravel is mapped as kame and outwash deposits (Shepps and others, 1959).
465	Donald H. Klippel R. D. 5 Meadville, PA 16335	Office (814) 425-3760	do.	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
604	Roger W. White Moisertown Road Saegertown, PA 16433	Office (814) 763-4191	do.	do.	Coarse aggregate General fill	Mapped as an outwash river terrace (Shepps and others, 1959).
605	Dolph N. Stanford R. D. 3 Cambridge Springs, PA 16403	Office (814) 398-8101	do.	do.	Fine aggregate	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

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Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
			Name operation	Lithology		
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Crawford County (cont.)						
606	Max E. Ferris R. D. 3 Cambridge Springs, PA 16403	Office (814) 398-2427	Open pit	Quaternary glacial gravel	Sand and gravel (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
607	Julius Russell R. D. 1 Cambridge Springs, PA 16403	Office (814) 398-4002	Open pit Landers	do.	Coarse aggregate	do.
608	Walter Shevitz R. D. 3 Conneaut Lake, PA 16316	Office (814) 382-8321	Open pit	do.	Coarse aggregate Fine aggregate	do.
611	Atlas Sand and Gravel, Inc. Box 75 Hartstown, PA 16131	Office (814) 382-8178	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.
612	Leroy Glover R. D. 3 Union City, PA 16438	Office (814) 438-3690	do.	do.	Coarse aggregate (bank-run)	do.
613	W. L. Dunn Construction Company Adams Street Cochrannton, PA 16314	Office (814) 425-2525 Site (814) 425-3160	Open pit Cutshall	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.
614	Hasbrouck Sand and Gravel, Inc. R. D. 4 Titusville, PA 16354	Office (814) 827-1721	Open pit	do.	do.	Mapped as outwash river terraces and lake deposits, undifferentiated (Shepps and others, 1959).
615	Meadville Redi-Mix Concrete, Inc. P. O. Box 418 Meadville, PA 16335	Office (814) 724-7777	Open pits	do.	do.	Two pits within 1.5 mi of each other. Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
616	do.	Office (814) 724-7777	Open pit Woodcock Twp.	Quaternary glacial sand	Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undif., with possible minor Kent ground moraine (Shepps and others, 1959).

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Crawford County (cont.)						
617	Donald R. Wallis R. D. 1 Saegertown, PA 16433	Office (814) 763-2529	Open pit Pinneys	Quaternary glacial gravel	Coarse aggregate (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
618	David St. John R. D. 1, Thomas Road Cambridge Springs, PA 16403	Office (814) 398-2521	Open pit St. John	do.	Coarse aggregate Fine aggregate	do.
621	Orie, Leon, and Elsie Watson R. D. 4 Centerville, PA 16404	Office (814) 967-4432	Open pit	do.	do.	do.
622	Donald Ferris R. D. 3 Cambridge Springs, PA 16403	Office (814) 398-2826	do.	do.	Coarse aggregate (bank-run)	do.
623	Lorraine McMahon R. D. 1 Cambridge Springs, PA 16403	do.	do.	do.	do.	Mapped as Kent ground moraine (Shepps and others, 1959).
624	Dale G. Snow Excavating R. D. 1 Cambridge Springs, PA 16403	Office (814) 398-8624	Open pit Martin	do.	do.	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
625	John L. Wallach, Jr. R. D. 3 Cambridge Springs, PA 16403	Office (814) 398-8013	Open pit Green Lawn Farm	do.	Coarse aggregate Fine aggregate	do.
626	Virgil Foust R. D. 2, Box 301 Conneaut Lake, PA 16316	Office (814) 382-8801	Open pit	do.	Coarse aggregate (crushed)	do.
627	Conneaut Lake Sand and Gravel, Inc. P. O. Box 646 Sharon, PA 16146	Office (412) 346-3594 Site (814) 382-5345	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Crawford County (cont.)						
628	Edinboro Gravel Company R. D. 2 Cambridge Springs, PA 16403	Office (814) 398-8111	Open pit	Quaternary glacial gravel	Coarse aggregate Fine aggregate Roofing materials	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
631	Robert L. Smock R. D. 2, Box 374 Meadville, PA 16335	Office (814) 724-2945 or (814) 438-2332	do.	do.	Coarse aggregate (bank-run)	do.
632	Wood and Barco R. D. 3, Box 397 Conneaut Lake, PA 16316	Office (814) 382-2187	Open pit Lingo	do.	Coarse aggregate	do.
633	do.	Office (814) 382-2187	Open pit Brown	do.	do.	do.
634	A & D Contracting R. D. 1 Titusville, PA 16354	Office (814) 827-1496	Open pit	do.	Coarse aggregate (bank-run)	do.
635	Sam H. Barnhart and Son R. D. 1, Box 45B Titusville, PA 16354	Office (814) 827-6031	Open pit Reynolds bank	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	do.
636	Robert N. LaCaze R. D. 4 Centerville, PA 16404		Open pit	do.	Coarse aggregate(?) Fine aggregate(?) Borrow and general fill(?)	do.
637	Edward Cornell R. D. 1 Linesville, PA 16424	Office (814) 683-5871	do.	do.	Coarse aggregate(?) Fine aggregate(?) Borrow and general fill(?)	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
638	Rogers Gravel R. D. 3 Spartansburg, PA 16434	Office (814) 654-7823	do.	do.	Coarse aggregate (crushed)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Crawford County (cont.)						
641	Noel Zimmerman R. D. 6 Meadville, PA 16335	Office (814) 425-7314	Open pit	Quaternary glacial gravel	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
Dauphin County						
642	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511 Site (717) 834-3710	Open pit Amity Hall	Quaternary glacial outwash Quaternary river alluvium	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid Roofing gravel Decorative landscape gravel	Mining an island in the Susquehanna River at the confluence with the Juniata River.
643	Hyles Hagy P. O. Box 368 Dauphin, PA 17018	Office (717) 921-2160	Open pit	Quaternary alluvium	Coarse aggregate	Mines alluvium of the Susquehanna River.
Erie County						
644	R & C Gravel Route 2, West Green Road Waterford, PA 16441	Office (814) 796-4104	do.	Quaternary glacial gravel Quaternary clay	Coarse aggregate Fine aggregate	Yellow and blue clay available. Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
645	Girts Sand and Gravel 8553 Findley Lake Road North East, PA 16428	Office (814) 725-3987	do.	Quaternary glacial gravel	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
646	Kuhl Sand and Gravel 9335 Peck Road Erie, PA 16510	Office (814) 899-9161	do.	do.	Coarse aggregate	do.
647	Martin Arneman R. D. 1, Arneman Road Edinboro, PA 16412	Office (814) 734-3191	do.	do.	Coarse aggregate (bank-run?)	Mapped as outwash (valley trains), river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
648	Waterford Sand and Gravel R. D. 3, Sturgis Road Union City, PA 16438	Office (814) 796-6250	Open pit Bagdad Rd.	do.	Coarse aggregate (bank-run)	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

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Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Erie County (cont.)						
651	Ira Hinkson R. D. 1, Donation Road Waterford, PA 16441	Office (814) 796-4093	Open pit Hinkson No. 1	Quaternary glacial gravel	Coarse aggregate (bank-run)	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
652	Clarence Seelinger 9897 Jones Road Erie, PA 16510	Office (814) 899-1561	Open pit	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, eskers, and probable outwash, undifferentiated (Shepps and others, 1959).
653	Waterford Sand and Gravel R. D. 3, Sturgis Road Union City, PA 16438	Office (814) 796-6250	Open pit Lake Pleasant	do.	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
654	Gaylord Parkhurst 11287 Ashlan Road North East, PA 16428	Office (814) 725-5843 or (814) 725-4633	Open pit	do.	Coarse aggregate General fill	Noncommercial. Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
655	Harold E. Dowler R. D. 4 Union City, PA 16438	Office (814) 438-2859	do.	do.	Coarse aggregate (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
656	Andy's Sand and Gravel R. D. 1, Box 45 Corry, PA 16407	Office (814) 665-3001	do.	do.	do.	do.
657	Hoover Sand and Gravel Company Troup Road Harborcreek, PA 16421	Site (814) 899-4618	Open pit Hoover No. 1	do.	Coarse aggregate Fine aggregate	Mapped as outwash, river terraces, and lake deposits (Shepps and others, 1959). Company has two other approved aggregate sources nearby.
658	Ronald F. Burdick R. D. 5 Waterford, PA 16441	Office (814) 796-2352	Open pit	do.	Coarse aggregate (bank-run)	Location of pit uncertain.
661	Union City Sand and Gravel, Inc. P. O. Box 168 Union City, PA 16438	Office (814) 438-2721 Site (814) 438-3523	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
<u>SAND AND GRAVEL (cont.)</u>						
<u>Erie County (cont.)</u>						
662	Joseph M. Toncho and Sons, Inc. R. D. 4, Box 344 Union City, PA 16438	Office (814) 438-2166	Open pit	Quaternary glacial gravel	Coarse aggregate (bank-run) Coarse aggregate (crushed) Topsoil	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
663	David Klie R. D. 5, MacLallen Corners Waterford, PA 16441	Office (814) 796-4939	do.	do.	Coarse aggregate (bank-run)	do.
664	Northwest Gravel Company 10746 Ridge Road Girard, PA 16417	Site (814) 774-3680	Open pit No. 1	do.	Coarse aggregate Fine aggregate Apprvd antiskid	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
665	McKean Sand and Gravel, Inc. R. D. 2, West Road McKean, PA 16426	Office (814) 476-1330	Open pit	do.	Coarse aggregate	do.
666	N. E. Myers Gravel Pit R. D. 1 Union City, PA 16438	Office (814) 739-2248	do.	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
667	Feagley Gravel Company 4258 West Ridge Road Erie, PA 16506	Office (814) 833-9647	do.	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mapped predominantly as the Ashtabula moraine system (Shepps and others, 1959).
668	Elwood M. Grubbs Route 20 West Springfield, PA 16443	Office (814) 922-7308	do.	do.	Coarse aggregate Fine aggregate	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
671	Hoover Sand and Gravel Company Troup Road Harborcreek, PA 16421	Office (814) 899-4618	Open pit Hoover No. 6	do.	Apprvd coarse agg Apprvd fine agg	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
672	Maybro Asphalt Company P. O. Box 1356 Erie, PA 16512	Office (814) 452-3748 Site (814) 739-2085	Open pit Lowville No. 1	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped principally as kames, kame terraces, kame moraines, and eskers, undifferentiated, with minor outwash(?) (Shepps and others, 1959).

**CONSTRUCTION AGGREGATE
SAND AND GRAVEL**

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Erie County (cont.)						
673	Roger W. Allen P. O. Box 125 Wattsburg, PA 16442	Office (814) 739-2737	Open pit	Quaternary glacial gravel	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
674	Erie Aggregates, Inc. P. O. Box 585 Wheatland, PA 16161	Office (412) 346-3594 Site (814) 796-6714	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.
675	Sibleyville Land and Gravel Company 10495 Sharp Road Waterford, PA 16441	Site (814) 796-2754 or (814) 796-4766	do.	do.	Coarse aggregate Topsoil	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated, with possible Lavery end moraine (Shepps and others, 1959).
676	Jack Peadt Gravel and Excavating R. D. 2 Wattsburg, PA 16442	Office (814) 739-2336	Open pit No. 1	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
677	Ganzer Sand and Gravel, Inc. 2412 Saltsman Road Erie, PA 16510	Office (814) 899-6824 Site (814) 796-4312	Open pit	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.
678	Central Sand and Gravel 9401 West Main Road North East, PA 16428	Office (814) 725-8011	do.	do.	Coarse aggregate Fine aggregate Borrow and general fill	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
681	William and Eileen Richter 6340 Firman Road Erie, PA 16510	Site (814) 899-1017	Open pit Richter No. 1 Open pit Richter No. 2	do.	Coarse aggregate (bank-run)	do.
682	John Majerik R. D. 2 Waterford, PA 16441	Site (814) 796-4472	Open pit	do.	do.	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
683	Ray Fairchild 6590 Naef Road Fairview, PA 16415	Office (814) 474-3506	do.	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mapped as Ashtabula moraine system (end moraines) by Shepps and others (1959).

CONSTRUCTION AGGREGATE SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Erie County (cont.)						
684	Over Lake, Inc. 10601 Ridge Road Girard, PA 16417	Office (814) 774-3361	Open pit	Quaternary glacial gravel	Coarse aggregate (bank-run)	Mapped as Ashtabula moraine system (end moraines) by Shepps and others (1959).
685	Bedrock Sand and Gravel, Inc. R. D. 1 Girard, PA 16417	Site (814) 774-8149	do.	do.	Coarse aggregate Fine aggregate	do.
686	Raymond D. Showman R. D. 1, Rt. 86 Edinboro, PA 16412	Office (814) 796-4230	Open pit King	Quaternary alluvium	Coarse aggregate (bank-run)	Mapped as alluvium (Shepps and others, 1959). Mining the floodplain of French Creek, which contains outwash.
687	West Ridge Gravel Company (Joseph Arendash) R. D. 2, Fairplain Road Girard, PA 16417	Office (814) 587-6074 Site (814) 774-9115	Open pit West Ridge S & G	Quaternary glacial gravel	do.	Mapped as Ashtabula moraine system (end moraines) by Shepps and others (1959).
688	Maybro Asphalt Company P. O. Box 1356 Erie, PA 16512	Office (814) 452-3748 Site (814) 734-7488	Open pit Edinboro 2	do.	Apprvd coarse agg Type C	Mapped as both undifferentiated outwash and kame deposits (Shepps and others, 1959).
691	McCormick Materials P. O. Box 626 Erie, PA 16512	Office (814) 459-4324 Site (814) 796-4461	Open pit	do.	Apprvd coarse agg Type C Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
692	Nicholas P. Mobilia 12281 Archer Road North East, PA 16428	Site (814) 725-4297	do.	do.	Coarse aggregate (bank-run)	Mapped as Ashtabula moraine under thin beach sands (Shepps and others, 1959).
693	Patrick A. Migliaccio 1224 West Main Street Corry, PA 16407	Office (814) 664-7236	do.	do.	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
694	Vance E. Burdick R. D. 2 Cambridge Springs, PA 16403	Office (814) 796-4496	do.	do.	Coarse aggregate (bank-run)	do.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Erle County (cont.)						
695	Hal D. Lilley R. D. 1, Box 37 Corry, PA 16407	Office (814) 664-2306	Open pit	Quaternary glacial gravel	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
696	Paul R. Robinson R. D. 4 Union City, PA 16438	Office (814) 438-3702	do.	do.	Coarse aggregate (bank-run)	do.
697	Erle Sand and Gravel Company (Koppers Company, Inc.) P. O. Box 153 Foot of Sasfras Street Erle, PA 16512	Office (814) 453-6721	Dredge	Quaternary glacial sand	Apprvd fine agg	Uses suction hopper dredge in Lake Erle.
Fayette County						
698	Allan R. Fiore, Inc. Box 37 Bethel Park, PA 15102	Office (412) 384-6220 or (412) 384-9718	Open pit	Quaternary alluvium	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mining the Youghiogheny floodplain. Intermittent production.
Forest County						
701	Tionesta Sand and Gravel, Inc. Box 307 Tionesta, PA 16353	Office (814) 755-3547 Site (814) 463-9221	Open pit West Hickory	Quaternary glacial gravel	Apprvd coarse agg Fine aggregate	Mining glacial outwash of the Allegheny River. Probably contains some local colluvium and alluvium.
702	Jack Kuntz P. O. Box 612 East Hickory, PA 16321	Site (814) 463-7723	Open pit	do.	Coarse aggregate (bank-run) Coarse aggregate (crushed)	Probably mining a mixture of undifferentiated glacial outwash and Allegheny River alluvium.
Franklin County						
466	Mount Cydonia Sand (New Enterprise Stone and Lime Co.) P. O. Box M Fayetteville, PA 17222	Office (717) 264-4178 Site (717) 352-7081	Open pits Plant 2	Quaternary alluvium	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mines a quartz- and sand-stone-rich alluvium.

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Jefferson County						
703	Russell Quinn R. D. 1, Box 90 Reynoldsville, PA 15851	Site (814) 371-2939	Open pit	Quaternary alluvium	Coarse aggregate Topsoil	Mining the floodplain of Little Toby Creek. See Glover and Bragonier (1978) for geology.
Lackawanna County						
555	North Pocono Peat and Humus R. D. 1 Gouldsboro, PA 18424	Office (717) 842-2036	do.	Quaternary glacial sand	Fine aggregate	
704	George F. Edwards P. O. Box 174 Elmburst, PA 18416	Plant (717) 842-8438	Open pit Madisonville	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg	SRL E
705	Joseph M. Grab Box 97, Star Route Gouldsboro, PA 18424	Plant (717) 842-8546	Open pit Grab No. 2	do.	Coarse aggregate Fine aggregate Clay	Two active pits along the Lehigh River probably mining glacial outwash.
706	Michael F. Uhrin R. D. 1 Olyphant, PA 18447	Office (717) 563-1087	Open pit	do.	Coarse aggregate Fine aggregate Topsoil	Possibly a kame terrace deposit.
707	Eagle Lake Corporation P. O. Box 305 Gouldsboro, PA 18424	Office (717) 842-4541	Open pit Eagle Lake	do.	Coarse aggregate	Appears to be a kame-like deposit associated with Emerson Run and Lake Run.
835	J M Topsoil R. D. 2, Box 68 Lake Ariel, PA 18436	Office (717) 842-9691	Open pits	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run) Topsoil	Main product is topsoil.
Lawrence County						
77	James F. Hamilton R. D. 1 New Wilmington, PA 16142	Office (412) 946-2813	Open pit	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run) Topsoil Borrow and general fill	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
708	James L. Buchowski, Excavating R. D. 3 Volant, PA 16156	Office (412) 533-2140	Open pit Moose's	do.	Coarse aggregate (bank-run)	Mapped as stream alluvium and outwash, undifferentiated (Shepps and others, 1959).
709	Mayberry Supply Company R. D. 4, Box 342 New Castle, PA 16101	Office (412) 652-6008	Open pit Mayberry	do.	Apprvd fine agg	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Lawrence County (cont.)						
711	Cooper Brothers, Inc. R. D. 2 Slippery Rock, PA 16057	Office (412) 794-4451	Open pits Slippery Rock Twp.	Quaternary glacial gravel	Coarse aggregate Fine aggregate Concrete-block aggregate	Mines two pits near Slippery Rock. Mapped as Ill. ground moraine(?), Wisc. Kent end moraine and ground moraine (Shepps and others, 1959).
712	Moon's Sand and Gravel, Inc. 2414 Wilmington Road New Castle, PA 16105	Office (412) 654-6679	Open pit Florida	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated, with minor alluvium (Shepps and others, 1959).
713	Slippery Rock Aggregates, Inc. P. O. Box 338 Bridgeville, PA 15017	Office (412) 221-7300	Open pits	do.	Coarse aggregate Apprvd fine agg	Mapped as kames, kame terraces, kame moraines, and eskers, undif., alluvium, and possible Kent end moraine (Shepps and others, 1959).
714	Mahoning Valley Sand Company P. O. Box 1236 New Castle, PA 16102	Office (412) 658-7746	Open pit	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
716	Plain Grove Sand and Supply Corp. P. O. Box 127 Gibsonia, PA 15044	Office (412) 443-1588 Site (412) 531-7200	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	do.
717	Zokle's Sand and Gravel R. D. 1 Edinburg, PA 16116	Office (412) 652-9046	do.	do.	Coarse aggregate (bank-run)	Mapped as Kent end moraine (Shepps and others, 1959).
718	Rose Point Sand and Gravel R. D. 6 New Castle, PA 16101	Site (412) 924-9355	Open pit Rhodes mine	do.	Coarse aggregate Fine aggregate Apprvd antiskid	Washed product. Mapped as Kent end moraine (Shepps and others, 1959).
721	Vanport Sand and Gravel, Inc. (Vanport Stone, Inc.) P. O. Box 144 Edinburg, PA 16116	Office (412) 667-7717	Open pit and dredging Edinburg	Quaternary alluvium	Coarse aggregate Apprvd fine agg	Mapped as undifferentiated stream alluvium (Shepps and others, 1959). Probably mixed with a considerable amount of glacial material.
722	Harold E. Book R. D. 4, Box 345 New Castle, PA 16101	Office (412) 652-8011	Open pit	Quaternary glacial gravel	Coarse aggregate(?) Borrow and general fill(?)	Mapped as Kent end moraine (Shepps and others, 1959).

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Lawrence County (cont.)						
723	Superior Sand and Supply Company R. D. 5 New Castle, PA 16105	Office (412) 654-6627	Open pit	Quaternary glacial gravel	Coarse aggregate Apprvd fine agg	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
725	Mahoning Valley Sand Company P. O. Box 1236 New Castle, PA 16102	Office (412) 658-7746 Plant (412) 658-7740	Open pit weinschenk	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as alluvium with possible minor undifferentiated outwash (Shepps and others, 1959).
Luzerne County						
726	Shirley M. Rinehimer R. D. 1 Berwick, PA 18603	Site (717) 752-7191	Open pit	do.	Coarse aggregate	Mapped as Woodfordian outwash. See Inners (1978).
727	J. A. and W. A. Hess, Inc. P. O. Box 645 Hazleton, PA 18201	Office (717) 454-3731 Site (717) 379-3151	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as Woodfordian frontal kame. See Inners (1978).
728	John Naunczek R. D. 1 Berwick, PA 18603	Office (717) 542-4021	do.	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	See Inners (1978) for geology. Mapped as Woodfordian terrace above the Susquehanna River.
731	Hunlock Sand and Gravel Company R. D. 1, Box 275A Hunlock Creek, PA 18621	Office (717) 256-3147	do.	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Appears to be a kame-like deposit associated with Roaring Brook.
732	Gerald and Lewis Naugle R. D. 3 Hunlock Creek, PA 18621	Office (717) 477-2919	do.	do.	do.	Appears to be an outwash terrace deposit on Pikes Creek. Might also be mining some Catskill bedrock.
733	Airport Sand and Gravel Co., Inc. 500 Sweetland Lane West Wyoming, PA 18644	Office (717) 693-0330	do.	do.	do.	Mining probable glacial outwash of the Susquehanna River system.
734	June Swanson R. D. 1, Box 4 Harveys Lake, PA 18618	Office (717) 639-5049	do.	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Appears to be outwash associated with Beaver Run.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Luzerne County (cont.)						
735	Duryea Realty Company, Inc. 773 North Main Street Pittston, PA 18640	Office (717) 654-2578	Open pit Feeder Dam mine	Quaternary glacial gravel	Coarse aggregate (bank-run)	Outwash associated with the confluence of the Susquehanna and Lackawanna Rivers.
736	A. Barletta and Sons P. O. Box 40 Hazleton, PA 18201	Office (717) 455-1511	Open pit Nescopeck or Honeyhole	do.	Coarse aggregate Fine aggregate	Mapped as Woodfordian frontal kame, up to 180 feet thick (Inners, 1978).
737	Peter Sedor 56 West Market Street Glen Lyon, PA 18617	Office (717) 736-7231	Open pit Newport	do.	Coarse aggregate(?) Fine aggregate(?) Borrow and general fill(?)	Intermittently active. Mining along a tributary of the South Branch of Newport Creek.
738	Barry Edwards R. D. 4, Box 620 Dallas, PA 18612	Office (717) 639-5627	Open pit Dallas	do.	Coarse aggregate Borrow and general fill	Noncommercial, for own use only.
Lycoming County						
741	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481 Site (717) 368-2666	Open pit Montoursville	Quaternary alluvium	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Fall (1979) for geology. Mapped as alluvium of the West Branch Susquehanna River.
McKean County						
97	John Peter Castelli Box 96 East Smethport, PA 16730	Office (814) 887-5875	Open pit	do.	Coarse aggregate Fine aggregate Borrow and general fill Topsoil	Mining alluvium on the floodplain of Potato Creek.
742	L. R. Howland R. D. 1 Port Allegany, PA 16743	Office (814) 642-7776	do.	do.	Coarse aggregate	Mining alluvium on the floodplain of the Allegheny River.
743	A Construction Corporation (Emblenton Limestone) P. O. Box 8 Concordville, PA 19331	Office (814) 437-6921	Open pit Turtle Point	do.	Apprvd coarse agg Apprvd antiskid Type C	Alluvial gravel of the Allegheny River.

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SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Mercer County						
744	Ronald W. Smith R. D. 1, Box 2 Carlton, PA 16311	Office (814) 425-2775	Open pit Smith	Quaternary glacial gravel	Coarse aggregate (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
745	Atlantic Materials, Inc. P. O. Box 279 Ambridge, PA 15003	Office (412) 266-7000 Site (412) 748-3333	Open pit	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	do.
747	H & H Materials R. D. 1, Box 67B Stoneboro, PA 16153	Office (412) 376-2834	do.	do.	Coarse aggregate Apprvd fine agg Apprvd antiskid	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
748	Western Pennsylvania Aggregates Inc. R. D. 1 Clarks Mills, PA 16114	Office (412) 253-2594	Open pit W. Pa. Aggregate	do.	Coarse aggregate (bank-run) Apprvd fine agg Apprvd antiskid	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
749	Taylor Sand and Gravel Company P. O. Box 661 Hall Furnace Road Sharon, PA 16146	Office (412) 346-3100	Open pit Big Bend	do.	Apprvd fine agg Apprvd antiskid	do.
751	Mrs. James L. McQuaid, Jr. R. D. 1 Sandy Lake, PA 16145	Office (412) 376-3964	Open pit	do.	Coarse aggregate (bank-run)	do.
752	G & G Ag Service, Inc. R. D. 6 Mercer, PA 16137	Office (412) 748-3838 Site (412) 748-4074	do.	do.	do.	do.
753	Shenango Valley Sand and Gravel 7240 Glenwood Avenue Youngstown, OH 44512	Site (412) 932-5600	Open pit Shine	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Mapped as undifferentiated kame and outwash deposits with minor Kent ground moraine (Shepps and others, 1959).
754	Philip Hoobler Box 5 Sheakleyville, PA 16151		Open pit	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).

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SAND AND GRAVEL

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Mercer County (cont.)						
755	Harold A. McQuiston Box 68 Sandy Lake, PA 16145	Office (412) 376-7255	Open pit Sandy Lake	Quaternary glacial gravel	Coarse aggregate (bank-run) Coarse aggregate (crushed)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
756	Roger L. Hoffman R. D. 5, Box 5056C MacMillan Road Mercer, PA 16137	Office (412) 662-2221	Open pit Mercer	do.	Coarse aggregate	do.
757	Seidle Sand and Gravel, Inc. P. O. Box 231 Mercer, PA 16137	Office (412) 662-5070	Open pit	do.	Coarse aggregate Apprvd fine agg Apprvd antiskid	do.
758	Ralph M. Risch R. D. 3 Grove City, PA 16127		Open pit Risch No. 1	do.	Coarse aggregate(?) Fine aggregate(?) Borrow and general fill(?)	do.
761	William M. Cummings R. D. 1 Grove City, PA 16127	Office (412) 458-7461	Open pit	do.	Coarse aggregate	do.
762	Wolf Creek Sand and Gravel Company R. D. 3, Box 228 Slippery Rock, PA 16057	Office (412) 794-8387	do.	do.	Coarse aggregate Fine aggregate	Mapped as Kent end moraine with possibly some undifferentiated stream alluvium (Shepps and others, 1959).
763	Big B Mining Company, Inc. R. D. 1 West Sunbury, PA 16061		do.	do.	do.	Mapped as kames and alluvium, undifferentiated (Shepps and others, 1959). Site location not verified.
Monroe County						
556	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Open pit Saylorsburg S & G	do.	Apprvd fine agg Apprvd antiskid	Mining undifferentiated glacial sand.
764	William C. Weber R. D. 2, Box 2313 Stroudsburg, PA 18360	Office (717) 992-5495	Open pit	do.	Coarse aggregate	Mines an apparent kame deposit near McMichael Creek.

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Monroe County (cont.)						
765	Pocono Industries, Inc. 1870 West Main Street Stroudsburg, PA 18360	Office (717) 421-6363 Site (717) 421-3889	Open pit Lesoine	Quaternary glacial gravel	Coarse aggregate Apprvd fine agg Apprvd antiskid	
766	Seilg Construction Company Box 185 Pocono Lake, PA 18347	Office (717) 646-3402	Open pit Blue Ridge No. 1	do.	Fine aggregate	Noncommercial. Product used exclusively for septic beds. Appears to be a kame-like deposit.
767	Pocono Transcrete, Inc. Star Route 1, Box 29 Blakeslee, PA 18610	Site (717) 646-2662	Open pit Blakeslee	do.	Coarse aggregate (crushed) Fine aggregate (washed)	Mapped as Woodfordian ice-contact stratified drift (Sevon, 1975b).
768	Lehigh Valley Sand and Gravel Co. R. D. 1 Saylorsburg, PA 18353	Office (717) 992-6460	Open pit Brodheads ville	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Mapped principally as a Woodfordian kame delta (Berg, 1975).
Northampton County						
771	Eastern Industries, Inc. P. O. Box 3188 Wescosville, PA 18106	Office (215) 395-5811 Plant (215) 258-2345	Open pit Martins Creek	do.	do.	Valley-train outwash. Bedrock former cement-producing quarries. See Krueger (1970) for description.
772	Penn Jersey Paving Materials, Inc. P. O. Box 207 Mt. Bethel, PA 18343	Office (717) 897-5151	Open pit Mt. Bethel	do.	Coarse aggregate Fine aggregate	Mapped as undifferentiated glacial deposits. See Drake and others (1969).
Northumberland County						
773	Central Builders Supply Company Island Park P. O. Box 152 Sunbury, PA 17801	Office (717) 286-6461 Site (717) 473-9532	Open pit Northumberland	Quaternary alluvium Quaternary glacial gravel	Apprvd coarse agg SRL E Apprvd fine agg	Mining on floodplain of Susquehanna River.
Pike County						
774	Joseph V. Caridi Box 185A, Blooming Grove Hawley, PA 18428	Site (717) 226-6885 or (717) 775-6438	Circle "C" Ranch	Quaternary glacial gravel	Coarse aggregate (bank-run) Borrow and general fill	Probable kame deposit.

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Pike County (cont.)						
775	Blooming Grove Sand and Gravel R. D. 2, Box 309 Lake Ariel, PA 18436	Office (717) 226-4585	Open pits Blooming Grove	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Formerly Pike Co. Sand and Gravel. Mines three pits on west bank of Blooming Grove Creek. Probably mix of ice-cavity filling and outwash.
776	Sunnylands, Inc. R. D. 1, Box 3000 Milford, PA 18337	Office (717) 686-2371	Open pit	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Noncommercial operation. Mining floodplain of Rattlesnake Creek. For geology, see Sevon and others (in press).
777	McKean and Son R. D. 1, Box 170 Hawley, PA 18428	Office (717) 226-4420	do.	do.	Coarse aggregate (crushed) Fine aggregate	Appears to be outwash from the Lackawaxen River.
778	R. A. Schmidt Box 201 Greeley, PA 18425	Office (717) 685-7426	do.	do.	Coarse aggregate Fine aggregate	See Sevon and others (in press) for geology.
781	Yvon Prevost 596 South Main Street West Hartford, CT 06110	Office (203) 561-0191	Open pit North Castle Acres	do.	Coarse aggregate	See Sevon and others (in press) for geology. May be mining a thin sandy till.
Potter County						
782	Buckler Construction Company R. D. 3, Box 255 Coudersport, PA 16915	Office (814) 647-8961	Open pit Toles Hollow	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Outwash valley train of the Allegheny River.
783	Johnson Homes R. D. 1 Roulette, PA 16746	Office (814) 544-9969	Open pit	Quaternary alluvium Quaternary glacial gravel	Coarse aggregate (bank-run)	Mining the floodplain of the Allegheny River.
784	Karhan Excavating Box 487 Coudersport, PA 16915	Office (814) 274-9600	do.	Quaternary glacial gravel	Coarse aggregate	Appears to be an outwash deposit associated with the Genesee River.
Susquehanna County						
785	New Milford Sand and Gravel R. D. 2 New Milford, PA 18834	Office (717) 465-3395	Open pit New Milford	do.	Coarse aggregate Fine aggregate	Appears to be mining a kame-like deposit associated with Salt Lick Creek.

CONSTRUCTION AGGREGATE

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SAND AND GRAVEL (cont.)						
Susquehanna County (cont.)						
786	Witiak Excavating R. D. 1, Box 13 Union Dale, PA 18470	Office (717) 679-2292	Open pit Thompson	Quaternary glacial gravel	Coarse aggregate (bank-run) Coarse aggregate (crushed) Fine aggregate (bank-run) Fine aggregate (screened) Topsoil	Appear to be kame-like deposits associated with a creek.
Tioga County						
787	Earl F. Dean, Inc. P. O. Box P, Rt. 6 West Galeton, PA 16922	Office (814) 435-6581 Site (717) 376-3531	Open pit Middlebury	do.	Apprvd coarse agg Type C	Outwash and possible kame terrace deposit.
788	Heysham Paving Company, Inc. 107 Walnut Street Elkland, PA 16920	Office (814) 258-7328 Site (717) 827-2473	Open pit Heysham No. 1	do.	Coarse aggregate (bank-run)	Glacial outwash and kame deposits, undifferentiated.
791	Tri-Lakes Construction R. D. 2 Tioga, PA 16946	Office (717) 827-2874	Open pit Lawrenceville	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	do.
792	Martin Construction Company R. D. 2, Box 115 Millerton, PA 16936	Office (717) 835-5765	Open pit	do.	Coarse aggregate Fine aggregate	Probably kame-like deposit associated with Lambs Creek drainage.
793	Cilford Cross, Jr. P. O. Box 99 Mainesburg, PA 16932	Office (717) 549-3234	do.	do.	Apprvd coarse agg Type C	Appears to be a kame-like deposit. Operator mines two other pits in the area.
794	Martin Construction Company R. D. 2, Box 115 Millerton, PA 16936	Office (717) 835-5765	Open pit Daggett	do.	Coarse aggregate(?) Fine aggregate(?)	Pit location uncertain.
795	do.	Office (717) 835-5765	Open pit and mill Tioga	do.	Apprvd coarse agg Type C Fine aggregate(?)	do.
Venango County						
105	Franklin Gravel Company R. D. 1 Utica, PA 16362	Office (814) 437-1064	Open pit Lepley	do.	Coarse aggregate Borrow and general fill	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Venango County (cont.)						
796	Cooperstown Sand and Gravel Schiffer Excavating, Inc. R. D. 1, P. O. Box 41 Franklin, PA 16323	Office (814) 432-3448 Plant (814) 374-4412	Open pit	Quaternary glacial gravel	Coarse aggregate (bank-run) Coarse aggregate (dredged)	Probably glacial valley outwash.
798	Vincent Excavating and Gravel P. O. Box 229 Franklin, PA 16323	Office (814) 432-8126	do.	do.	Apprvd coarse agg Landfill cover Type C	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
801	Carl E. Huff 1178 Otter Street Franklin, PA 16323	Office (814) 432-3308	do.	do.	Coarse aggregate (bank-run)	do.
802	I A Construction Corporation (Emblenton Limestone) Box 351 Franklin, PA 16323	Office (215) 459-3136 Site (814) 437-6921	Open pit Burkhardt	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Mapped as glacial outwash, river terraces, and lake deposits, undif. (Shepps and others, 1959). Mining floodplain of Sugar Creek.
803	Lewis Phillips 910 Rocky Grove Avenue Franklin, PA 16323	Office (814) 432-4263	Open pit Patchel Run	do.	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
804	Paul A. Marlowe Box 603 Kennerdell, PA 16374	Office (814) 385-6857	Open pit Louise	do.	Coarse aggregate (bank-run) Fine aggregate	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
805	River Ridge Dev., Inc. R. D. 1, Box 555 Cochran, PA 16314	Site (814) 437-5941	Open pit River Ridge	do.	Coarse aggregate	Mapped as Illinoian ground moraine (Shepps and others, 1959).
806	Tionesta Sand and Gravel, Inc. P. O. Box 307 Tionesta, PA 16353	Office (814) 755-3547	Open pit Cooperstown	do.	Coarse aggregate Fine aggregate	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
Warren County						
807	Ronald L. Crosscut R. D. 4 Corry, PA 16407	Office (814) 664-4686	Open pit	do.	Coarse aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Warren County (cont.)						
808	Toplovich Gravel R. D. 1 Columbus, PA 16405	Office (814) 664-4927	Open pit	Quaternary glacial gravel	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated, with possible outwash (Shepps and others, 1959).
811	I A Construction Corporation dba General Concrete Products Corp. 240 River Road Warren, PA 16365	Office (215) 459-3136 Site (814) 723-2144	Dredging Starbrick	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959). Mining the Allegheny River floodplain.
812	Tionesta Sand and Gravel, Inc. P. O. Box 307 Tionesta, PA 16353	Office (814) 755-3547	Open pit Russell	do.	Apprvd coarse agg Type C Apprvd fine agg	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
813	do.	Office (814) 755-3547 Plant (814) 563-7283	Open pit Garland plant	do.	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid	Mapped as outwash river terraces and lake deposits, undifferentiated (Shepps and others, 1959).
814	Yeagle Excavating P. O. Box 924 Warren, PA 16365	Office (814) 723-9220	Open pit Glade Run	do.	Coarse aggregate (bank-run) Coarse aggregate (crushed)	Mapped as undifferentiated kame and outwash deposits (Shepps and others, 1959).
815	Dick Cable Gravel Products Box 271 Russell, PA 16345	Site (814) 757-9400	Open pit	do.	Coarse aggregate (bank-run)	do.
816	Brokenstraw Gravel, Inc. P. O. Box 77 Pittsfield, PA 16340	Office (814) 563-7911	do.	do.	Apprvd coarse agg Type C Fine aggregate	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
817	Michael Zurkan, Jr. 87 Crestview Boulevard Warren, PA 16264	Office (814) 723-6004	do.	do.	Coarse aggregate Fine aggregate	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
818	Grunderville Landfill (Warren County Solid Waste Auth.) Grunderville Road Warren, PA 16365	Office (814) 726-2431	do.	do.	Coarse aggregate (bank-run) Fine aggregate (screened)	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Warren County (cont.)						
821	Tionesta Sand and Gravel, Inc. P. O. Box 307 Tionesta, PA 16353	Office (814) 755-3547 Site (814) 484-3518	Open pit Tidoute plant	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
822	I A Construction Corporation (Emlenton Limestone) 240 River Road Warren, PA 16365	Office (215) 459-3136 Site (814) 563-4721	Open pit General Concrete	do.	Apprvd coarse agg Fine aggregate	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959). Sometimes called the Pittsfield pit.
823	Ben Courson 333 Main Street Tidoute, PA 16351	Site (814) 484-3828	Open pit	do.	Coarse aggregate(?) (bank-run) Borrow and general fill(?)	Mapped as outwash, river terraces, and lake deposits, undifferentiated (Shepps and others, 1959).
824	Dennis K. Devore R. D. 1, Box 40 Pittsfield, PA 16340	Office (814) 563-4278	do.	do.	Coarse aggregate (crushed) Fine aggregate	do.
825	Bailey and Turner Gravel R. D. 2, Box 227 Pittsfield, PA 16340	Office (814) 563-9088	do.	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mapped as kames, kame terraces, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
Wayne County						
327	Wood Excavation and Construction R. D. 1, Box 150 Damascus, PA 18415	Site (717) 224-4113	do.	do.	Coarse aggregate	Also produces shale for borrow and general fill.
826	Lake Ladore Sand and Gravel, Inc. 100 Maple Avenue Waymart, PA 18472	Office (717) 488-5320 Plant (717) 488-5411	Open pit Roberts-Thomas	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
827	Ciccione Excavating, Inc. R. D. 2 Honesdale, PA 18431	Office (717) 253-0718	Open pit	do.	Coarse aggregate (bank-run) Fine aggregate (bank-run)	
828	John J. Palko Star Route Prompton, PA 18456	Office (717) 253-5114	do.	do.	Sand and gravel (bank-run)	Currently licensed but not operating.

CONSTRUCTION AGGREGATE

SAND AND GRAVEL

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Wayne County (cont.)						
831	Clyde Swingle Excavating 220 Palm Avenue Hawley, PA 18428	Office (717) 226-3222	Open pit	Quaternary glacial gravel	Coarse aggregate (bank-run) Fine aggregate (bank-run)	Mines a terrace-like deposit near the Lackawaxen River.
832	Michael A. Gibbons R. D. 1, Box 211 Hawley, PA 18428	Office (717) 226-4792	do.	do.	do.	Appears to be a kame-like deposit associated with the Lackawaxen River.
833	E. R. Bigart Gravel Company R. D. 3 Honesdale, PA 18431	Office (717) 253-4998	do.	do.	Coarse aggregate Fine aggregate	Outwash and kame-like deposit associated with the Lackawaxen River.
834	Evergreen Estates 460 Dorchester Road Ridgewood, NJ 07450	Office (201) 444-1216	Open pit Smith	do.	Coarse aggregate	Noncommercial. Appears to be a kame-like deposit.
836	Dyberry Sand and Gravel Company R. D. 3, Box 55 Honesdale, PA 18431	Office (717) 253-4230	Open pit Dyberry	do.	Coarse aggregate Fine aggregate Apprvd antiskid	Appears to be an ice-contact or kame-like deposit associated with Dyberry Creek.
837	Philip Pruss R. D. 1 Lake Ariel, PA 18436	Office (717) 689-9731	Open pit Pruss	do.	Coarse aggregate Fine aggregate	
839	Indian Orchard Gravel Services (Roland E. Mill) Rt. 4 Honesdale, PA 18431	Site (717) 253-3498	Open pit	do.	Coarse aggregate Borrow and general fill	Appears to be mining outwash or a kame-like deposit associated with Orchard Brook. Borrow and general fill is red Catskill shale.
Westmoreland County						
841	Davison Sand and Gravel Company 3rd Avenue and 4th Street New Kensington, PA 15068	Plant (412) 362-4900	Plant-dredging New Ken	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Plant processes glacial outwash dredged from the Allegheny River pools 6 and 3.
Wyoming County						
842	Land Development Company R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Site (717) 836-4018	Open pit Tunkhannock	do.	Coarse aggregate Fine aggregate	Intermittent production and blends with sand from other pits.

CONSTRUCTION AGGREGATE
SAND AND GRAVEL

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SAND AND GRAVEL (cont.)						
Wyoming County (cont.)						
843	East Falls Sand and Gravel Co., Inc. (American Asphalt Paving Co., Inc.) R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Site (717) 654-0414	Open pit East Falls plant	Quaternary glacial gravel	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Outwash terraces of the Susquehanna River.
844	Land Development Company R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Site (717) 654-0414	Open pit Exeter	do.	Coarse aggregate Fine aggregate Roofing gravel	
845	Wyoming Sand and Stone Company R. D. 2 Tunkhannock, PA 18657	Office (717) 836-2117	Open pit South Eaton	do.	Apprvd coarse agg Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mines and blends three pits in Eaton Twp. (S. Eaton, Robinson, and Kapolka). Ap- pears to be outwash in Sus- quehanna River floodplain.
846	do.	Office (717) 836-2117	Open pit Robinson	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining probable glacial out- wash of the Susquehanna River.
847	Chamberlain Sand and Gravel R. D. 1 Falls, PA 18615	Office (717) 388-6298	Open pit	do.	Coarse aggregate	Mining an outwash terrace of the Susquehanna River.
848	Dominick W. Ardo 36 Reynolds Street Hughestown, PA 18640	Office (717) 654-3457	Open pit James	do.	Coarse aggregate(?) Fine aggregate(?) Borrow and general fill(?)	Mining a possible kame-like deposit. Might be a collu- vium or bedrock operation 480 feet above creek level.
849	Eaton Supply R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Plant (717) 836-4018	Open pit Tunkhannock	do.	Apprvd coarse agg Apprvd fine agg	General Crushed Stone Company crushes stone for Eaton Sup- ply under contract. Probably valley train outwash.
York County						
941	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511	Open pit York Haven	Quaternary alluvium	Apprvd coarse agg	SRL E

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE						
Allegheny County						
851	McShane Industries 80 Nobletown Road Carnegie, PA 15106	Site (412) 276-7300	Quarry Walkers Mill	Monongahela Group sandstone	Coarse aggregate Rip-rap Dimension stone	Reported to be producing from the Morgantown sandstone.
852	Northern Allegheny Stone, Inc. Box 1 Curtisville, PA 15032	Site (412) 265-3610	Quarry Allegheny Stone #1	Glenshaw sandstone	Coarse aggregate Fine aggregate Rip-rap	Mining Lower Mahoning sand- stone. See Wagner and others (1975) for geology.
Bedford County						
853	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Plant (814) 276-3591	Quarry Weyant	Foreknobs ss and siltst	Fine aggregate	
Berks County						
462	Martin Stone Quarries, Inc. P. O. Box 297 Bechtelsville, PA 19505	Office (215) 367-2011	Quarries	Hardyston quartzite	Apprvd coarse agg SRL E Apprvd fine agg Apprvd antiskid Clayey ovb as liners and fill	Selective mining of more than one formation. See "Gneiss." See Buckwalter (1959) for geology and Pa. Geol. Surv. (1984) for description.
553	A & J Aggregates, Inc. R. D. 1, P. O. Box 545 Temple, PA 19560	Site (215) 929-4922	Quarry Berks Silica Sand	do.	Fine aggregate	See MacLachlan (1979) and Berkheiser (1985, in press). White kaolinitic clay present; see Berkheiser and Smith (1984).
554	Charles G. Gabel, Inc. 217 North Franklin Street Boyetown, PA 19512	Office (215) 367-2574 Site (215) 845-7260	Quarry	do.	Coarse aggregate (bank-run)	
854	Mahlon Wagenhurst R. D. 4, Box 4621 Fleetwood, PA 19522	Office (215) 944-7522	Quarries	do.	Coarse aggregate Fine aggregate	See MacLachlan (1979) for geology. Operates two small quarries.
Blair County						
552	J. L. Hartman Company, Inc. P. O. Box 295 Holidaysburg, PA 16648	Office (814) 695-1531	Quarry	Tuscarora quartzite	Coarse aggregate	Also produces ganister. See "Refractories."

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Blair County (cont.)						
855	Frankstown Sand, Inc. t/a A & E Sand Company P. O. Box 337 Holidaysburg, PA 16648	Office (814) 695-0165 Site (814) 943-5604	Open pit Frankstown Sand	Ridgeley sandstone	Fine aggregate Refractory brick setting sand	Ridgeley, or "Oriskany," usually contains a weathered and friable zone at the top of the formation. Characteristically breaks around grains.
856	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 224-2121	Quarry Roaring Spring #3	Bald Eagle sandstone	Apprvd coarse agg Apprvd antiskid	Also mines Ordovician carbonates at Roaring Spring. See "Limestone" and "Agricultural Minerals."
Bradford County						
857	New Milford Sand and Gravel R. D. 2 New Milford, PA 18834	Office (717) 465-3395	Quarry Lou Case	Lock Haven ss and coquinite	Coarse aggregate Fine aggregate Rip-rap	Intermittent production. See Woodrow (1981) for geologic description of the quarry.
Bucks County						
858	Delaware Quarries Rt. 32 Lumberville, PA 18933	Site (215) 297-5496	Quarry	Stockton sandstone	Fine aggregate Dimension stone	Fine aggregate is a by-product of the dimension-stone business. Also see "Dimension Stone."
Cambria County						
478	C B S Mining, Inc. 325 Fayette Street Johnstown, PA 15905	Office (814) 535-4051	Quarry Cramer Pike	Burgoon sandstone	Coarse aggregate Fine aggregate	Also see "Limestone."
861	B & Y Sand and Gravel Box 27 Sidman, PA 15955	Office (814) 863-1661	Quarry	Glenshaw sandstone	do.	
Carbon County						
401	Alliance Sand Company R. D. 1, Box 73E Palmerton, PA 18071	Office (201) 534-4055 Site (215) 826-2248	Quarry Alliance Sand Co.	Palmerton sandstone	Apprvd fine agg Apprvd antiskid Silica for cement manufacture	See Epstein and others (1974).
862	Eastern Industries, Inc. P. O. Box 3188 Wescosville, PA 18106	Office (215) 395-5811	Quarry Little Gap	do.	Coarse aggregate Fine aggregate	Former North American Refractories operation. See Sevon (1970) or Epstein and others (1974) for analyses and description. Intermittent.

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Carbon County (cont.)						
863	Huss Contracting Company P. O. Box 177 Tuscarora, PA 17982	Office (717) 668-0559	Quarry East Penn	Trimmers Rock sandstone	Apprvd coarse agg SRL H	Mining the lower member, a sandstone containing some shale and siltstone. See Wood (1974) for geology.
864	Refractory Sand Company, Inc. P. O. Box 177 Tuscarora, PA 17982	Office (717) 668-0559	Quarry	Palmerton sandstone	Apprvd fine agg Apprvd antiskid	See Berkheliser (1985, in press) for analysis of the same formation at Andreas, and Epstein and others (1974) for geology.
Chester County						
865	Valley Forge Stone Company R. D. 4, P. O. Box E Honey Brook, PA 19344	Office (215) 273-2921	Quarry Valley Forge	Chickies Stone quartzite	Coarse aggregate Fine aggregate Apprvd antiskid Rip-rap	See Berkheliser (1985, in press) for chemical analyses.
Clearfield County						
866	I A Construction Corporation (Emulton Limestone) P. O. Box 89 Bigler, PA 16825	Office (215) 459-3136 Site (814) 342-2723	Quarry Bigler	Mercer sandstone	Apprvd coarse agg Apprvd antiskid Type C	See Edmunds (1968) for geology.
Columbia County						
867	Columbia Asphalt Corporation P. O. Box 300 Bloomsburg, PA 17815	Office (717) 784-4944	Quarry Columbia Asphalt	Catskill siltstone Sherman Creek claystone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid SRL H	See Inners (1981) for geology and quarry description. Mines a red-colored rock.
Crawford County						
942	Flack Stone, Inc. R. D. 1 Jamestown, PA 16134	Office (412) 932-3195	Quarry Flack Stone	Sharpsville ss and siltst	Coarse aggregate Rip-rap Jetty stone	Mississippian Cuyahoga Group.
Cumberland County						
868	R. A. Bender and Son P. O. Box 73 Mount Holly Springs, PA 17065	Office (717) 486-5414 Plant (717) 486-5414	Quarries	Antietam sandstone	Apprvd coarse agg Fine aggregate Apprvd antiskid Type C	Operates three distinct quarries, all in the Antietam Formation. See Berkheliser (1985, in press) for analyses.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SANDSTONE (cont.)						
Cumberland County (cont.)						
871	Hempt Brothers, Inc. 205 Creek Road Camp Hill, PA 17011	Office (717) 737-3411 Site (717) 486-5111	Clay dump Toland mine	Harpers sandstone Montalto Mbr.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Operator processes clay dumps for aggregate. Some bedrock production. See Freedman (1967) for geology, Berkhel- er (1985, in press) for anal.
872	Rimac, Inc. P. O. Box 16 Carlisle, PA 17013	Office (717) 243-5662 Site (717) 532-2411	Quarry C & L Goodhart	Antietam quartzite	Coarse aggregate Apprvd fine agg	See Berkheliser (1985, in press) for potential uses of Antietam.
873	Penn Products Corporation 1369 Swope Drive Boiling Springs, PA 17007		Quarry	Antietam sandstone	Coarse aggregate(?) Borrow and general fill(?)	May have high-purity silica potential; see Berkheliser (1985, in press). For geology, see Root (1978).
Dauphin County						
874	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889-0177	Office (717) 524-2251 Site (717) 362-3388	Quarry Elizabethville	Pocono sandstone Mount Carbon Mbr.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	See Hoskins (1976) for geology.
Elk County						
869	Benzinger Township Stone Quarry P. O. Box 224 St. Marys, PA 15857	Office (814) 834-7551	Quarry	Unknown sandstone	Coarse aggregate(?) Fine aggregate(?)	Location of quarry is unknown.
Fayette County						
493	Commercial Stone Company, Inc. P. O. Box 208 Belle Vernon, PA 15012	Office (412) 929-5400 Site (412) 626-0080	Quarry Rich Hill	Burgoon sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Blends underlying Burgoon with overlying Loyalhanna. See "Limestone."
496	Standard Aggregates, Inc. (Standard Slag) P. O. Box 1378 Youngstown, OH 44501	Office (412) 885-8600 Site (412) 564-5970	Quarry Laurel Run	do.	Apprvd coarse agg	Also mines the overlying Loyalhanna limestone. Hickok and Moyer (1940) described other Loyalhanna quarries in Fayette County.

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Forest County						
875	Phillip R. Yeane Box 22 Spruce Street Marionville, PA 16239	Office (814) 927-8367	Quarry Yeane Farms	Pottsville Group sandstone	Coarse aggregate	
Franklin County						
876	Mount Cydonia Sand (New Enterprise Stone and Lime Co.) P. O. Box M Fayetteville, PA 17222	Office (717) 264-4178 Site (717) 352-3411	Quarry Plant 1	Antietam sandstone and qzt	Fine aggregate Colored sands - various	Currently mines a weathered friable varicolored to white sandstone. See Berkheiser (1985, in press) for anal., Fauth (1978) for description.
Fulton County						
34	H. B. Mollott Estate, Inc. 328 North Second Street McConnellsburg, PA 17233	Office (717) 485-3171 Site (717) 294-3281	Quarry Charlton	Ridgeley sandstone	Fine aggregate	Mines "Oriskany" sandstone. Also mines the Keyser and Tonoloway Formations. Also see "Limestone."
877	do.	Office (717) 485-3171	Open pit Smith	do.	Apprvd fine agg	Mines the Ridgeley or "Oriskany" sandstone.
Indiana County						
878	William Jay Ackerson R. D. 2 Clymer, PA 15728	Site (412) 254-2644	Quarry	Glenshaw sandstone	Coarse aggregate Fill material	Produces both sandstone and shale material.
881	Jennings Heilms Trucking, Inc. R. D. 3 Indiana, PA 15701	Office (412) 463-7638	do.	do.	Coarse aggregate	Mainly used for building access roads for gas wells.
882	R. D. Johns and Sons 144 Dixon Road Clymer, PA 15728	Office (412) 254-2764	Open pit	do.	do.	
Jefferson County						
883	Glenn Sand and Gravel P. O. Box 61 Corsica, PA 15829	Office (814) 379-3379 Site (814) 856-2401	Quarry Corsica	Allegheny Group sandstone	Coarse aggregate Fine aggregate	See Graeber and Foose (1942) for geology. Reported to be mining the Lower Kittanning sandstone.

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Lackawanna County						
884	Ransom Quarry Company, Inc. Ransom, PA 18653	Office (717) 388-6516	Quarry Ransom	Catskill sandstone	Apprvd coarse agg Rip-rap	Type C
885	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Quarry Daleville	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL E
886	Summit Quarry (Wyoming Sand and Stone Company) Griffin Pond Road Clarks Summit, PA 18411	Office (717) 836-2117 Site (717) 587-5528	Quarry Summit	do.	Apprvd coarse agg Rip-rap	SRL E
Lancaster County						
887	Howard Groff 111 East State Street Quarryville, PA 17566	Office (717) 786-2166	Quarry Quarryville	Antietam-Harpers schistose qzt	Coarse aggregate	Small quarry in development stage.
888	Gerhart Road Materials, Inc. Ephrata, PA 17522	Office (717) 626-8544	Quarry Ephrata	New Oxford sandstone	Fine aggregate	Intermittent production.
Luzerne County						
891	American Asphalt Paving Company R. D. 7, Box 95 Shavertown, PA 18708	Plant (717) 696-1181	Quarry Chase	Catskill siltstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap Railroad ballast	SRL E Predominantly red beds.
892	General Crushed Stone Company Star Route White Haven, PA 18661	Office (215) 253-4271 Site (717) 443-8131	Quarry White Haven	Mauch Chunk sandstone	Apprvd coarse agg Apprvd fine agg	SRL H Listed as subsidiary (Susquehanna Quarry Co.) by PennDOT. Subcontractors for White Haven Red Rock Sales.
893	Coolbaugh Sand and Stone, Inc. 32 Railroad Street Scranton, PA 18505	Site (717) 655-5188	Quarry	Pottsville Group sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap Railroad ballast	SRL E
894	A. Barletta and Sons P. O. Box 40 Hazleton, PA 18201	Office (717) 455-1511	Strip mines Jeansville	Llewellyn sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL E Appears to be reprocessing sandstone from abandoned anthracite strip-mine refuse.

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Luzerne County (cont.)						
895	Addy Asphalt Company P. O. Box 1231 Wilkes-Barre, PA 18773	Office (717) 822-3186	Quarry Keystone	Llewellyn sandstone Pottsville Group sandstone and cgl	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Rip-rap	SRL E
Lycoming County						
899	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481	Quarry Loyalsock pit	Ridgeley sandstone	Fine aggregate	See Faill (1979) and Wells and Bucek (1980) for geology and description. Mines the "Oriskany" sandstone.
McKean County						
896	Kane Stone Company P. O. Box 640 Kane, PA 16735	Office (814) 837-9460	Quarry	Pottsville Group sandstone	Coarse aggregate Apprvd antiskid	
897	Duffy, Inc. P. O. Box 374 Smethport, PA 16749	Office (814) 887-5579	Quarry Lantz Corners	do.	Coarse aggregate Rip-rap	Probably mining the Conno- quenessing sandstone.
Mercer County						
898	White Rock Silica Sand Company (McCrady, Inc.) P. O. Box 391 Greenville, PA 16125	Office (412) 362-0300 Site (412) 588-7020	Quarry	Sharon sandstone	Coarse aggregate	See Stone (1932) for geologic description.
Mifflin County						
901	Fulkroad Realty, Inc. R. D. 2 McAllisterville, PA 17049	Office (717) 463-3522	Open pit Hopple site	Ridgeley sandstone	Fine aggregate	"Oriskany" sandstone.
902	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889-0177	Office (717) 524-2251 Site (717) 242-0252	Quarry Strodes Mill	do.	do.	About 2 mi NE of abandoned glass sand operation, first worked in 1868. See Fette (1919). Mines the "Oriskany" sandstone.

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Mifflin County (cont.)						
903	Macknair Sand Pit R. D. 1, Stagefarm McClure, PA 17841	Office (717) 543-5740	Open pit	Ridgeley sandstone	Fine aggregate	Also called "Oriskany" Formation. Intermittent production. See Conlin and Hoskins (1962) for geology. Mining a weathered sandstone.
Monroe County						
904	Eastern Industries, Inc. Kunkletown, PA 18058	Office (215) 395-5811 Site (215) 381-3122	Open pit Kunkletown	Palmerton sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Specialty sand	See Berkheliser (1985, in press) for chemical analysis.
905	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Quarry Saylorsburg	Schoharie siltstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
906	Locust Ridge Stone Quarry Co., Inc. (Haines and Kibblehouse, Inc.) Star Route 282 Pocono Lake, PA 18347	Office (215) 362-2600 Site (717) 646-3324	Quarry Locust Ridge	Catskill sandstone	Apprvd coarse agg Apprvd antiskid	
Northumberland County						
907	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889-0177	Office (717) 524-2251 Plant (717) 644-0603	Quarry Shamokin	Llewellyn sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
908	Bear Gap Stone, Inc. R. D. 1 Elysburg, PA 17824	Office (717) 672-9018	Quarry	Trimmers Rock siltstone and ss	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	
Perry County						
911	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511 Site (717) 567-3197	Quarry Newport	Trimmers Rock siltstone Brallier siltstone	do.	See Dyson (1963) for geology.

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Pike County						
912	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Quarry Milford	Catskill sandstone	Apprvd coarse agg Apprvd antiskid	See Sevon and others (in press) for geology. See Stone (1932) for a description of the famous "blue-stone" quarries.
Schuylkill County						
398	Refractory Sand Company, Inc. P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Refractory Sand	Palmerton sandstone	Apprvd fine agg Apprvd antiskid Refractory sand Mineral wool Cement raw material	See Sevon (1970) and Lash and others (1984) for geology. See Berkhiser (1985, in press) for analysis.
913	Daniel G. Grow 223 Arch Street Ringtown, PA 17967	Office (717) 889-3346	Open pit The Hill	Mauch Chunk sandstone	Fine aggregate	See Arndt (1971a) for geology.
914	Summit Stone, Inc. P. O. Box 130 Summit Station, PA 17979	Office (717) 754-7508	Quarry Summit Stone	Trimmers Rock siltstone	Apprvd coarse agg Apprvd fine agg	SRL H
915	Middleport Materials, Inc. P. O. Box 100 Middleport, PA 17953	Office (717) 628-4440	Quarry Middleport	Pottsville Group sandstone	Fine aggregate	New operation. See Wood (1973a) for geology. Mining a weathered sandstone.
Somerset County						
518	Keystone Lime Company, Inc. Springs, PA 15562	Office (814) 662-2711	Quarry Galley	Burgoon sandstone	Apprvd coarse agg Apprvd fine agg	SRL E Practices selective mining of three units; see "Limestone." Burgoon is lowermost rock unit mined. See Flint (1965) for geology.
521	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211	Quarry Bakersville	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL E Selectively mines the Loyalhanna and Burgoon Formations; also see "Limestone."
916	Commonwealth Stone, Inc. R. D. 2, P. O. Box 112 A Somerset, PA 15501	Office (814) 443-2808 Plant (814) 629-5664	Quarry Pitttown	Allegheny Group sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Gabion Rip-rap	Type C Kittanning and Homewood sandstones.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Somerset County (cont.)						
917	Standard Slag Company P. O. Box 1378 Youngstown, OH 44501	Office (216) 743-3151 Plant (814) 467-4418	Quarry Cambria	Mauch Chunk sandstone	Apprvd coarse agg Apprvd antiskid	Some sandstone rip-rap available.
918	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Plant (814) 754-4921	Quarry Central City	Allegheny Group sandstone	Apprvd fine agg	Reported to be mining the Kittanning sandstone.
921	Rodamer Concrete Products Springs, PA 15562	Plant (814) 662-4024	Quarry	do.	Fine aggregate	Reported as the Freeport sandstone (see Flint, 1965). Aggregate is washed and screened.
Susquehanna County						
922	State Aggregates, Inc. (Eastern Industries, Inc.) R. D. 1, Williams Pond Road Montrose, PA 18801	Office (215) 395-5811 Site (717) 278-3827	Quarry Montrose plant 3	Catskill sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	SRL E
923	State Aggregates, Inc. (Eastern Industries, Inc.) P. O. Box 118 Route 374 Clifford, PA 18431	Office (215) 395-5811 Site (717) 222-3193	Quarry Clifford	do.	do.	
Tioga County						
919	Lycoming Silica Sand Company (Koppers Company, Inc.) R. D. 1 P. O. Box 159 Montoursville, PA 17754	Office (717) 368-2481	Quarry Blossburg	Huntley Mountain sandstone Burgoon sandstone	Apprvd coarse agg Apprvd antiskid	Type C Location uncertain.
924	Faylor-Middlecreek, Inc. P. O. Box 177 Winfield, PA 17889-0177	Office (717) 524-2251 Plant (717) 376-5481	Quarry Tioga County	Huntley Mountain sandstone	Apprvd coarse agg Apprvd fine agg	SRL E
925	Allegheny Mountain Company, Inc. Box N Galeton, PA 16922		Quarry High Mountain	Pottsville Group sandstone and cgl	Coarse aggregate Fine aggregate Rip-rap	See Berkeiser (1985, in press) for analysis. Chemically has some potential as a glass sand. Possible intermittent production.

CONSTRUCTION AGGREGATE SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Tioga County (cont.)						
926	4 D Quarries Box 901 Broome Street Binghamton, NY 13902		Quarry Gurney	Allegheny Group sandstone Pottsville Group sandstone	Coarse aggregate Fine aggregate Rip-rap	Mining the Allegheny and Pottsville Groups, undivided.
Venango County						
927	Michael J. Klapek 432 Oak Road Oil City, PA 16301	Office (814) 677-9563 or (814) 676-3662	Quarry	Pottsville Group sandstone	Coarse aggregate	
928	Hards Construction, Inc. R. D. 2 Franklin, PA 16323	Office (814) 676-3647	Quarry Clarks	do.	do.	
931	James J. Morrison Construction R. D. 2, Box 230 Franklin, PA 16323	Office (814) 676-6066	Quarry Morrison	Connoquenessing sandstone Mercer sandstone	Coarse aggregate(?) Borrow and general fill(?)	See Ward and others (1979) for geology. Probably mining the upper Connoquenessing sandstone.
932	John I. Mantz R. D. 1 Venus, PA 16364	Office (814) 354-2350	Quarry	Allegheny Group sandstone	Coarse aggregate	
Wayne County						
933	Keystone Pavement and Construction Company, Inc. P. O. Box 127 Lake Ariel, PA 18436	Site (717) 344-5483	Quarry Enslin	Catskill sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining the Poplar Gap and Packerton Members, undivided. Also reported to have a gravel pit in Salem Township.
934	Mahnob, Inc. P. O. Box 248 Honesdale, PA 18431	Office (717) 253-0693	Quarry Eldreds	do.	Coarse aggregate(?) Borrow and general fill(?)	
935	Eureka Stone Quarry Lower State and Pickerton Rds. Chalfont, PA 18914	Office (215) 333-8000	Quarry Sterling	do.	Apprvd coarse agg Type C	
936	Wayne Crushed Stone, Inc. 3100 North Main Avenue Scranton, PA 18508	Site (717) 698-5651	Open pit Lake Ariel quarry	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Mining Poplar Gap and Packerton Members, undivided.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SANDSTONE (cont.)						
Westmoreland County						
937	M. Carl Hoover R. D. 4, Box 165 Greensburg, PA 15601	Office (412) 668-2554	Quarry	Glenshaw sandstone	Coarse aggregate Fine aggregate	
Wyoming County						
938	Eaton Supply (American Asphalt Paving Co., Inc.) R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Site (717) 836-4018	Quarry Eaton plant	Catskill sandstone	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Apparently some glacial gravel also is mined at this site and provides a source of approved coarse aggregate.
York County						
366	York Stone and Supply Company P. O. Box 1948 York, PA 17405	Office (717) 843-0981	Quarry Neuman's	Chickies quartzite	Apprvd coarse agg	Primary product is brick facing. See Berkheiser (1985, in press) for chemical analyses.
457	County Line Quarry, Inc. South Front Street Wrightsville, PA 17368	Plant (717) 252-1584	Quarries	Antietam quartzite	Apprvd coarse agg Apprvd fine agg	Selective mining of more than one formation. See "Dolomite."
SERPENTINITE						
Lancaster County						
943	D. M. Stoltzfus and Son, Inc. Talmage, PA 17601	Office (717) 656-2411 Plant (717) 548-2192	Quarry Cedar Hill	Baltimore Complex serpentinite	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Railroad ballast	Stone (1932) discusses some serpentinite quarries in Lan- caster County. See Lapham (1960) for a description of mineralogy and geology.
SLAG						
Allegheny County						
929	Natrona Slag Company, Inc. P. O. Box 211 Spring Road Extension Natrona Heights, PA 15065	Office (412) 226-3680	Slag dump Natrona Heights	Man-made steel slag	Apprvd coarse agg Apprvd antiskid	Some open-hearth material is available.
930	Clairton Slag Company Box 10,884 Pittsburgh, PA 15236	Office (412) 462-8111 or (412) 384-8420	Slag dump Peter Creek	Man-made granulated slag	Apprvd coarse agg Apprvd antiskid	Granulated blast-furnace slag.

CONSTRUCTION AGGREGATE
SLAG

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SLAG (cont.)						
Allegheny County (cont.)						
939	Gascola Slag 475 Thompson Run Road Pittsburgh, PA 15235	Office (412) 856-7706	Slag dump Gascola	Man-made steel slag	Apprvd coarse agg Type C	Formerly U. S. Steel's operation. Probably open- hearth slag.
944	Duquesne Slag Products Company 355 Fifth Avenue, Park Building Pittsburgh, PA 15222	Office (412) 281-6000	Slag dump West Mifflin	Man-made slag	Apprvd coarse agg Apprvd fine agg Apprvd antiskid SRL H	See O'Neill (1974) for a discussion of slag products in the Pittsburgh region. This operation produces blast-furnace slag.
Beaver County						
945	Duquesne Slag Products Company 355 Fifth Avenue, Park Building Pittsburgh, PA 15222	Office (412) 281-6000	Slag dump Aliquippa	do.	Apprvd coarse agg Apprvd fine agg SRL H	do.
946	International Mill Service 1818 Market Street Philadelphia, PA 19104	Office (215) 963-2600 Sales (412) 787-5690	Slag dump Midland	do.	Apprvd fine agg Apprvd antiskid	Blast-furnace slag.
Bucks County						
402	Warner Company Loudback Road, R. D. Morrisville, PA 19067	Office (215) 667-9700 Site (215) 736-2571	Slag dump Morrisville plant	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid Lightweight aggregate Cement extender SRL H	Source of slag is U. S. Steel blast furnace at Morrisville. Warner manufactures pellet- ized, granulated pellets, and air-cooled slag products.
Cambria County						
940	Cambria Slag Company (Standard Slag Company) 1200 Stambaugh Building Youngstown, OH 44501	Office (814) 467-4418	Slag dump Ryder Deposit 2	do.	Apprvd coarse agg Apprvd antiskid Type C	
Chester County						
947	International Mill Service 1818 Market Street Philadelphia, PA 19104	Office (215) 963-2600 Sales (215) 384-4534	Slag dump Coatesville	Man-made steel slag	Apprvd coarse agg Apprvd fine agg Apprvd antiskid SRL G	

CONSTRUCTION AGGREGATE
SLAG

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
CONSTRUCTION AGGREGATE (cont.)						
SLAG (cont.)						
Dauphin County						
948	Hempt Brothers, Inc. 205 Creek Road Camp Hill, PA 17011	Office (717) 737-3411 Site (717) 939-9586	Slag dump Steelton	Man-made steel slag	Apprvd coarse agg Apprvd coarse agg SRL G SRL H	Dumps are the result of Bethlehem Steel Corp. Steel-ton complex. SRL G is from steel slag; SRL H is from blast-furnace slag.
Fayette County						
951	Globe Construction Company, Inc. Box 370 Dunbar, PA 15431	Office (412) 277-8231	Slag recovery Globe Slag plant	Man-made slag	Coarse aggregate General fill	
Lawrence County						
949	New Castle Lime and Stone Company R. D. 1 Edinburg, PA 15044	Office (412) 654-5537	Slag dump	Man-made steel slag	Apprvd coarse agg Antiskid	
952	B & P Slag Corporation 307 Produce Street New Castle, PA 16101	Office (412) 658-8093	do.	Man-made slag	Coarse aggregate	
Lebanon County						
443	Sheridan Corporation P. O. Box 9 Lebanon, PA 17042	Site (717) 273-1608	Slag dump Lebanon plant	do.	Apprvd coarse agg Apprvd antiskid Railroad ballast Fine agg for block plant Roofing slag	Mining blast-furnace slag. Also see "Roofing Materials."
Mercer County						
953	Dunbar Slag Company, Inc. P. O. Box 666 Sharon, PA 16146	Office (412) 346-3594	Slag dump	do.	Apprvd coarse agg Apprvd antiskid	SRL H designation applies to blast-furnace slag.
Northampton County						
954	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (215) 694-4134	Slag dump Bethlehem	do.	Apprvd coarse agg Apprvd fine agg Apprvd antiskid	Aggregate manufactured from blast-furnace slag.

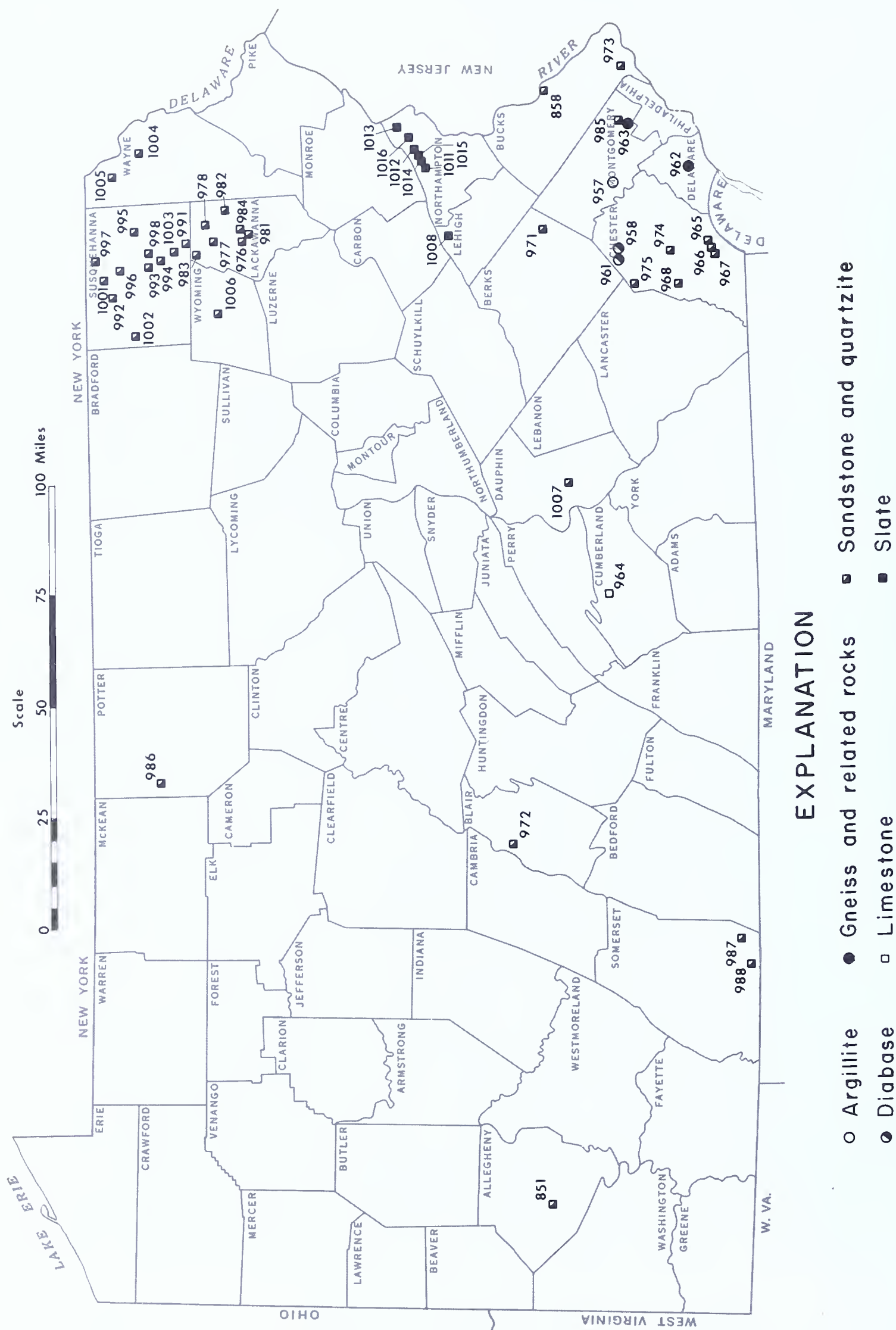


Figure 7. Locations of rocks mined for dimension stone in Pennsylvania. Map numbers correspond to those on Plate 1.

**DIMENSION STONE
DIABASE**

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>CONSTRUCTION AGGREGATE (cont.)</u>						
SLAG (cont.)						
Washington County						
955	Duquesne Slag Products Company 355 Fifth Avenue, Park Building Pittsburgh, PA 15222	Office (412) 281-6000	Slag dump Palmer Park	Man-made slag	Apprvd coarse agg Type C	See O'Neill (1974) for a discussion of slag products in the Pittsburgh region. Operation produces granulated and blast-furnace slag.
Westmoreland County						
956	Duquesne Slag Products Company 335 Fifth Avenue, Park Building Pittsburgh, PA 15222	Office (412) 281-6000	Slag dump Monessen	do.	Apprvd coarse agg SRL H Apprvd fine agg	See O'Neill (1974) for a discussion of slag products in the Pittsburgh region. This operation produces blast-furnace slag.
<u>DIMENSION STONE</u>						
ARGILLITE						
Montgomery County						
957	Burdo Brothers Quarry 29 North Washington Avenue Belmont Hills, PA 19004	Site (215) 489-9841	Quarry	Lockatong argillite	Dimension stone, irregular	May also be producing from Brunswick Formation silt- stones(?).
DIABASE						
Chester County						
958	Pennsylvania Granite Corporation P. O. Box 510 St. Peters, PA 19470	Office (215) 469-9674	Quarry Cherry Hill	York Haven diabase	Dimensional blocks and slabs Industrial surface plates	This is a new quarry being developed in 1984. Trade name is "Cherry Hill Black Granite."
961	do.	Site (215) 469-9674	Quarry Fox Hill	do.	Diabase blocks and slabs	Trade name is "Foxhill Black Granite." Only active diabase dimension stone producer in state. High strength. See Stone (1932) for description.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
GNEISS AND RELATED ROCKS						
Delaware County						
962	Media Quarry Company 131 East Second Street Media, PA 19063	Office (215) 566-6667	Quarry	Wissahickon mica schist	Building stone	See Stone (1932) for a description of Delaware County dimension-stone sources.
Montgomery County						
963	Marcolina Brothers, Inc. 133 E. Mermaid Lane Philadelphia, PA 19118	Office (215) 247-2252	Quarry Hillcrest	Wissahickon micaceous gneiss	Dimension stone Building stone Flagstone	Stone (1932) reported mining of mostly micaceous schist with some gneiss and fine-grained hornblende schist.
LIMESTONE						
Cumberland County						
964	Caretti's Quarry P. O. Box 331 Camp Hill, PA 17011	Office (717) 737-6759 Site (717) 243-3593	Quarry Caretti's	Chambersburg limestone	Building veneer Ashlar Quarry run Dry wall	
SANDSTONE						
Allegheny County						
851	McShane Industries 80 Nobletown Road Carnegie, PA 15106	Site (412) 276-7300	Quarry Walkers Mill	Monongahela Group sandstone	Dimension stone Construction aggregate Rip-rap	Reported to be producing from the Morgantown sandstone. Also see "Construction Aggregate."
Berks County						
971	Rolling Rock Building Stone, Inc. R. D. 4 Bovertown, PA 19512	Office (215) 987-6226	Stripping Rolling Rock	Hardyston quartzite and colluvium	Building stone Fieldstone	Natural and split-face building stone. Three fieldstone-stripping areas are operated.
Blair County						
972	J & L Flagstone Quarry Box 625, R. D. 1 Homers Gap, PA 16601	Office (814) 942-1204	Quarry	Catskill sandstone	Building stone Dimension stone Flagstone	Mapped as the Duncannon Mbr. See Faili and others (1986, in press).

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SANDSTONE (cont.)						
Bucks County						
858	Delaware Quarries Rt. 32 Lumberville, PA 18933	Site (215) 297-5496	Quarry	Stockton sandstone	Veneer and building stone Rubble Ashlar, hand-cut Fieldstone Construction aggregate	Lumberton quarry established in 1852. Reported to have six other quarries. See Stone (1932) for descriptions of Lumberville quarries.
973	Langhorne Stone Company (Delaware Quarries) 1868 West Super Highway Parkland, PA 19047	Office (215) 297-5496 Site (215) 757-2208	do.	Chickies sandstone	Building stone	
Chester County						
965	Anthony D'Amico R. D. 1, Box 288 Avondale, PA 19311	Site (215) 268-2727	Quarry D'Amico	Setters quartzite	do.	See Stone (1932) for descrip- tion and Bascom and Stose (1932) for geology.
966	Rotunno Stone Yard 163 West Evergreen Street West Grove, PA 19390	Office (215) 869-8255	Quarry Rotunno Stone Yard	do.	Building stone Flagging	Quarry-run material. Color is both brown and blue. See Stone (1932) for description and Bascom and Stose (1932) for geology.
967	Avon Grove Quarry P. O. Box 177 Avondale, PA 19311		Quarry	Setters quartzite and gneiss	Building stone	See Stone (1932) for descrip- tion.
968	C. Mark Wise Box 208 Bowmansville, PA 17507	Site (215) 857-5602	Quarry C. Mark Wise	Chickies quartzite	do.	
974	Faddis Stone 3660 Kings Highway Downingtown, PA 19335	Site (215) 269-5400		do.	do.	Brown and white colors. Exact location of quarry uncertain. Might be colluvium that is being mined(?).
975	Welsh Mountain Building Stone, Inc. 227 Isabella Street Norristown, PA 19401	Office (215) 275-4421 Site (215) 273-2681	Quarry Welsh Mountain	Chickies sandstone	do.	

DIMENSION STONE
SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SANDSTONE (cont.)						
Dauphin County						
1007	Blue Mountain Building Stone Co. 6953 Sleepy Hollow Road Harrisburg, PA 17112	Office (717) 599-5702	Quarry	Mahantango sandstone	Dimension stone guillotine-split random ashlar Landscaping boulders Veneer	Probably mining Montebello or equivalent plus Silurian and Devonian float and colluvium. Varicolored, including white, tan, rust, brown.
Lackawanna County						
976	Godino's West Mountain Stone Quarry 703 Newton Road Scranton, PA 18504	Office (717) 346-2882	do.	Specht's Kopf sandstone	Rough blocks(?)	See Stone (1932) for descrip- tion of the Joe Godino quarry.
977	Kochmer Quarries P. O. Box 4 Clifford, PA 18413	Office (717) 222-3992	Quarries	Catskill sandstone	Building stone	Wholesale only. Classic "Pennsylvania bluestone" (flagstone).
978	John Wargo R. D. 1, Box 415 Jermyn, PA 18433	Office (717) 254-6945	Quarry	do.	Flagstone	Trade name is "bluestone" (flagstone).
981	B & G Corbin Steel and Stone Co. Rt. 33, Box 846 Hightstown, NJ 08520	Office (609) 448-2749	Quarry West Mt. Stone	Specht's Kopf sandstone	Building stone	Blocks and rubble. See Stone (1932) for description of W. Mtn. quarries. Apparently this quarry is contiguous with Godino's W. Mtn. Quarry?
982	Indian Cave Enterprises, Inc. 144 South Main Street Archbald, PA 18403	Office (717) 876-3280	Quarry	Specht's Kopf sandstone and cgl	Building stone Rough quarry stone	
983	Thomas Chillewski P. O. Box 368 New Milford, PA 18834	Office (717) 756-2257	Quarry Price	Catskill sandstone	Flagstone	See Stone (1932) for descrip- tion of flagstone mining in Lackawanna County.
984	Robert Lynch R. D. 1, Box 256 Carbondale, PA 18407	Office (717) 282-3417	Quarry Pellar	Specht's Kopf sandstone	Dimension stone Flagstone	Sawn and dressed flagstone. See Stone (1932) for descrip- tion of operations on West Mountain.
Montgomery County						
985	A. Manero and Sons 424 Willow Grove Avenue Glenside, PA 19038	Office (215) 884-0567	Quarry	Chickies quartzite	Building stone	Lithology is quartzite and quartz-sericite schist. See Stone (1932) for descrip- tion under "Edge Hill."

DIMENSION STONE
SANDSTONE

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Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SANDSTONE (cont.)						
Potter County						
986	Rummings Bluestone Company R. D. 1, Box 5078 Jersey Shore, PA 17740	Office (717) 398-1691	Quarry Coyle	Catskill sandstone	Flagstone	
Somerset County						
987	Willis E. Durst P. O. Box 92 Grantsville, MD 21536	Office (301) 689-2707	Quarry Glencoe	Pocono sandstone	Flagstone Cut veneer stone	May include some Rockwell Formation.
988	M & S Quarries Box 357 Grantsville, MD 21536	Office (301) 895-5151	Quarry Flat Field	Allegheny Group sandstone	Building stone	Mining Freeport sandstone. Location uncertain. Could also be mining the Burgoon Sandstone.
Susquehanna County						
991	Robert Lynch R. D. 1, Box 256 Carbondale, PA 18407	Office (717) 282-3417	Quarry	Catskill sandstone	Dimension stone	Classic "bluestone" (flag- stone).
992	Cecil Kilmer R. D. 1, Box 62 Nicholson, PA 18446	Site (717) 942-6546	Quarry No. 1	do.	Flagstone	See Stone (1932) for a de- scription of the Susquehanna County flagstone industry. Operates two quarries in Susquehanna County.
993	do.	Site (717) 942-6546	Quarry No. 2	do.	do.	do.
994	Lee A. Wilbur and Son R. D. 1 Kingsley, PA 18826	Office (717) 434-2821	Quarry Morgan Hill	do.	Flagging Steps Treads Veneer wall-stone	See Stone (1932) for a de- scription of the Susquehanna County flagstone industry.
995	Russell Winnie Quarry Box 459 Hallstead, PA 18822	Office (717) 879-4425	Quarry Russell Winnie	do.	Flagstone	do.

DIMENSION STONE
SANDSTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SANDSTONE (cont.)						
Susquehanna County (cont.)						
996	Don Burns R. D. 1, Box 24 AA New Milford, PA 18834	Office (717) 465-3058	Open pit	Lock Haven sandstone	Flagstone	Can cut to any size. Stone (1932) described the "New Milford" lower sandstone as 20 ft thick and exposed 70 ft above tracks at New Milford.
997	Thomas Chileski P. O. Box 368 New Milford, PA 18834	Office (717) 756-2257	Quarry Hartel	Catskill sandstone	do.	See Stone (1932) for descrip- tion of flagstone mining in Susquehanna County.
998	Herb Kilmer and Sons Flagstone R. D. 1, Box 167L Kingsley, PA 18826	Office (717) 434-2060	Quarry	do.	Flagstone and treads Veneer Wallstone Fieldstone Hearths and mantels	Operates three distinct quarries in Susquehanna County.
1001	do.	Office (717) 434-2060	Quarry Marcy	do.	do.	do.
1002	do.	Office (717) 434-2060	Quarry Rainbow	do.	do.	do.
1003	David L. Antoine R. D. 1, Box 159 Nicholson, PA 18446		Quarry	do.	Flagstone	See Stone (1932) for a dis- cussion of Susquehanna County "bluestone" producers.
Wayne County						
1004	George F. Whitlock and George A. Taylor P. O. Box 71 Lakewood, PA 18439	Office (717) 798-2200	do.	do.	Flagstone Treads	Commercially known as "Pennsylvania bluestone" (flagstone).
1005	Kenneth Doyle R. D. 1 Preston Park, PA 18455		do.	Catskill ss and siltst	Flagstone	

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SANDSTONE (cont.)						
Wyoming County						
1006	Paul R. Custer R. D. 3 Tunkhannock, PA 18657	Office (717) 836-1370	Quarry	Catskill sandstone	Flagstone	Trade name is "bluestone." See Stone (1932) for a description of quarries in Wyoming County.
SLATE						
Lehigh County						
1008	Penn Big Bed Slate Company, Inc. P. O. Box 184 Slatingsdon, PA 18080	Office (215) 767-4601 or (215) 432-0638	Quarry Manhattan	Martinsburg slate Pen Argyl Mbr.	Structural slate Flagging and roofing Blackboards Tiles and blocks Turkey calls	See Behre (1933) and Berkheliser (1984 and in press) for a description of the geology and mining.
Northampton County						
1011	Sreebs Slate and Stone Co., Inc. P. O. Box 44 Wind Gap, PA 18091	Site (215) 863-4161	Quarry	do.	Roofing and flooring Structural slate Treads and risers Window sills and mantels Flagging	Mining the Albion Run. Manufacturer is Williams and Sons Slate and Tile, Inc., Wind Gap. See Behre (1933) for "Albion Superior Quarry."
1012	Anthony Dally and Sons, Inc. P. O. Box 27 Railroad Avenue Pen Argyl, PA 18072	Office (215) 863-4172	Quarry A. Dally & Sons	do.	Structural slate Roofing slate Electrical slate Billiard and blackboard slate Flooring and flagstone slate	Works five quarries with at least six distinct milling operations in the area. See Behre (1933) and Berkheliser (1984 and in press).
1013	Henry Capozzolo R. D. 1, Box 1343 Bangor, PA 18013	Office (215) 588-4702	Quarry	do.	Flagging Floor tile - pattern (ribbon) Gift items (clocks, etc.)	See Behre (1933) for history and mining. See Epstein (1973) for geology.
1014	Anthony Dally and Sons, Inc. d/b/a Diamond Slate Company P. O. Box 27 Railroad Avenue Pen Argyl, PA 18072	Office (215) 863-4172 Site (215) 863-4172	Quarry Diamond Slate	do.	Structural slate Billiard table tops Blackboards Electrical boards Roofing and flagging	Include treads, sills, paneling, fireplace units, bathroom partitions, lab sinks. Sold by Structural Slate Co., P.O. Box 187, Pen Argyl 18072.
1015	Anthony Dally and Sons, Inc. d/b/a Doney Slate Company Box 5 Pen Argyl, PA 18072	Office (215) 863-4172	Quarry Doney No. 1 Quarry Doney No. 2	do.	Structural slate Billiard table tops Blackboards Roofing Flagging	do.

DIMENSION STONE
SLATE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>DIMENSION STONE (cont.)</u>						
SLATE (cont.)						
Northampton County (cont.)						
1016	American Bangor Slate Company (John T. Dally) P. O. Box 27 Pen Argyl, PA 18072	Office (215) 863-4172	Quarry American Bangor	Martinsburg slate Pen Argyl Mbr.	Flooring Flagging Structural products Roofing	See Davls and others (1967) for geology. See Behre (1933) and Berkheliser (1984 and in press) for descrip- tions of the operation.
<u>FILLERS</u>						
ARGILLITE AND HORNFELS						
Bucks County						
432	Better Materials Corporation Swamp Road and Route 232 Penns Park, PA 18943	Office (215) 598-3152	Quarry Better	Lockatong argillite Brunswick shale	Mineral filler Railroad ballast Construction aggregate	See Willard and others (1959) for geology.
BARITE						
Fulton County						
1017	Our's Mining, Inc. 150 Spring Road Brownsville, PA 15417	Office* (602) 951-2401	Open pit Pa. Barite No. 1	Wills Creek carbonate rocks	Barite	Vein-type deposit. See Socolow (1959) and Geyer and others (1976). *Only telephone number avail- able is in Scotsdale, Ariz.
CLAY-SHALE						
Lancaster County						
2	Narvon Products Corporation P. O. Box 58 Narvon, PA 17555	Office (717) 354-4941	Open pit Narvon mines	Chickies kaolinitic clay	Mfg of floor and ceiling tile Pipe coatings Anti-caking agents Mastics and gasketing Water-treatment clay	Mines a siliceous, kaolinitic and mica-rich white clay. See Hosterman (1984) for a brief description and chem- ical analysis.
DOLomite						
Lancaster County						
5	Compass Quarries, Inc. 47 McIlvaine Road Paradise, PA 17562	Office (717) 442-4191	Quarry	Vintage dolomite	Fillers and extenders Pulverized dolomite for agr Construction aggregate High-magnesium dolomite	See Miller (1934) under "Bellemont Quarries" for description and chemical analysis.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
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FILLERS (cont.)

DOLOMITE (cont.)

York County

11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	Ledger dolomite	Fillers Pulverized dolomite for agr Refractory products Construction aggregate Coal-mine rock dust	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.
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LIMESTONE

Lancaster County

38	David M. Burkholder, Inc. (New Enterprise Stone and Lime Co.) R. D. 3 Ephrata, PA 17522	Office (717) 354-4306	Quarry Hinkletown	Anville limestone	Fillers High-calcium limestone Fluxstone Pulverized limestone for agr	Selectively mines the Ann- ville for high-calcium pro- ducts and the Epler dolomite for construction aggregate.
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Northumberland County

44	Meckley's Limestone Products, Inc. R. D. 1 Herdon, PA 17830	Site (717) 758-3001	Quarry Mandata	Keyser limestone	Fillers Pulverized limestone for agr Construction aggregate	See Fail (1973) and Hoskins (1976) for description, geology, and analyses. Op- erator custom blends and grinds.
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Snyder County

45	National Limestone Quarry, Inc. Box 397 Middleburg, PA 17842	Site (717) 837-1635	Quarry Paxtonville	do.	Fillers for fertilizer Construction aggregate Pulverized limestone for agr	See O'Neill (1964) for analysis.
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York County

51	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 1	Kinzers limestone	Filler - coarsely ground	Reported to be developing a coarsely ground whiting pro- duct. Selectively mined.
53	Thomasville Stone and Lime Company (Medusa Aggregates Company) P. O. Box 23 Thomasville, PA 17364	Office (800) 521-8299 Site (717) 792-2631	Underground	do.	Fillers, extenders, whiting Mineral foods Pulverized limestone for agr Fluxstone Cement and glass manufacture	See Cloos (1968) for geologic description of the quarry, O'Neill (1964) for analysis, and Berkheiser (1983) for whiting producers.
1018	Gold Bond Building Products 501 Hokes Mill Road York, PA 17404	Site (717) 843-0076	Quarry York	do.	Fillers and extenders Whiting	Subsidiary of National Gypsum Co. See Stose and Jonas (1939) for geology and de- scription.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
FILLERS (cont.)						
LIMESTONE (cont.)						
York County (cont.)						
1021	White Pigment Corporation Hull Road Ext. York, PA 17404	Office (802) 483-2388 Site (717) 792-9815	Quarry White Pigment	Kinzers limestone	Fillers and extenders Whiting	See Stose and Jonas (1939) for geology and Berkheliser (1983) for whiting character- istics and chemical analysis.
METABASALT						
Adams and Franklin Counties						
1022	G A F Corporation Box 0 Blue Ridge Summit, PA 17214	Office (201) 628-3000 Site (717) 794-2184	Quarry Charmian	Catoctin metabasalt	Asphalt stabilizers Asphalt fillers Roofing granules	Also see "Roofing Materials."
MICA						
Adams County						
1023	Gross Minerals Corporation Box 116 Aspers, PA 17304	Site (717) 677-7313	Open pit	Catoctin phyllite	Fillers and extenders	Manufactures a minus-325-mesh sericitic product. Mapped as a green phyllite by Fauth (1978a).
SANDSTONE						
Huntingdon County						
1	Pennsylvania Glass Sand Corp. P. O. Box 187 Berkeley Springs, WV 25411	Office (304) 258-2500 Site (814) 542-2561	Quarry Keystone	Ridgeley sandstone	Filler sand Pottery sand Enamel sand	Mines the "Oriskany" sand- stone. See Berkheliser (1985, in press) for analysis and Fettke (1919) for descrip- tions.
SHALE						
Bucks County						
1024	American Olean Tile Company 675 California Road Quakertown, PA 18951	Office (215) 855-1111	Open pit Docketor-Johnson	Brunswick shale	Filler	Captive source of shale and clay for manufacturing plants.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
FILLERS (cont.)						
SHALE (cont.)						
Northumberland County						
271	Bowman J. Ulrich, Jr., and Sons 200 Liberty Street Watsonstown, PA 17777	Office (717) 538-2380	Open pit B.J. Ulrich & Sons	Mahantango shale	Fillers and extenders Borrow and general fill	Supplies the Keystone Filler & Mfg. Co. with raw material used in coatings, brake linings, sealers, and fillers. See Fall 1 (1979) for geology.
SLAG						
Lehigh County						
351	Celotex Corporation P. O. Box 663 Pittston, PA 18640	Office (717) 388-6131	Slag dump Fullerton	Man-made slag	Filler in acoustic tile Borrow and general fill	
FLUXSTONE						
DOLOMITE						
Chester County						
4	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 647-4094	Quarry Catanach	Ledger dolomite	Fluxstone Construction aggregate Pulverized dolomite for agr	
Lebanon County						
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	Ontelaunee dolomite Annville limestone	Fluxstone Railroad ballast Construction aggregate High-calcium limestone High-calcium quicklime	See O'Neill (1976) for analyses, Sims (1968) for description and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
Montgomery County						
6	Corson Lime Company Joshua Rd. and Stenton Ave. Plymouth Meeting, PA 19462	Office (800) 433-8852 Site (215) 828-4300	Quarries	Ledger dolomite	Fluxstone for metal industry	See O'Neill (1964) for analysis.
7	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 279-6840	Quarry McCoy	do.	Fluxstone Pulverized dolomite for agr Construction aggregate High-magnesium dolomite	See Miller (1934) for geological description and chemical analysis.

FLUXSTONE
DOLOMITE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
FLUXSTONE (cont.)						
DOLOMITE (cont.)						
York County						
11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	Ledger dolomite	Fluxstone Refractory products Construction aggregate Fillers Coal-mine rock dust	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.
LIMESTONE						
Butler County						
23	Allegheny Mineral Corporation (Snyder Associated Companies) P. O. Box 10 Kittanning, PA 16201	Office (412) 548-8101 Plant (412) 794-6911	Quarry Slippery Rock	Vanport limestone	Fluxstone High-calcium limestone Pulverized limestone for agr Coal-mine rock dust Construction aggregate	
24	do.	Office (412) 548-8101 Plant (412) 735-2088	Quarry Harrisville	do.	do.	See O'Neill (1976) for analysis and thickness.
Centre County						
26	Warner Company P. O. Box 448 Belleville, PA 16823	Office (215) 667-9700 Plant (814) 359-2313	Quarry Gentzel	Linden Hall limestone	Fluxstone High-calcium limestone High-calcium limes Pulverized limestone for agr	Mining the Valentine Member.
27	do.	Office (215) 667-9700 Site (814) 355-4761	Underground Bell	do.	Fluxstone High-calcium quicklime High-calcium hydrate lime Pulverized limestone for agr Coal-mine rock dust	Mining the Valentine Member. See Berkhiser (1985, in press). Also see "Gentzel quarry."
28	Con Lime, Inc. P. O. Box 118 Belleville, PA 16823	Office (814) 355-4744	Underground mine	do.	Fluxstone for glass High-calcium limestone High-calcium quicklime Coal-mine rock dust Pulverized limestone for agr	Mining the Valentine Member. Formerly owned by Donta. Miller (1934) summarized the geology of the Nittany Valley and the Valentine limestone.

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments

FLUXSTONE (cont.)						
LIMESTONE (cont.)						
Lancaster County						
37	Lancaster Lime and Stone Corp. (Eastern Industries, Inc.) P. O. Box 30 930 Pointview Avenue Ephrata, PA 17552	Plant (215) 267-2864	Quarry Schoeneck	Annaville Limestone	Fluxstone Cement raw material Acid neutralization High-calcium limestone	Selectively mines the Myers- town and Ontelaunee for cnst. materials and the Annville for high-Ca products. See Berkheiser (1983) for anal.
38	David M. Burkholder, Inc. (New Enterprise Stone and Lime Co.) R. D. 3 Ephrata, PA 17522	Office (717) 354-4306	Quarry Hinkletown	do.	Fluxstone Pulverized limestone for agr High-calcium limestone Filler	Selectively mines the Ann- ville for high-calcium pro- ducts and the Epler dolomite for construction aggregate.
Lebanon County						
42	Calclite Quarry Division Corson Lime Company P. O. Box 629 201 Prescott Road Lebanon, PA 17042	Office (717) 273-3754	Quarry	Annaville Limestone Ontelaunee dolomite	Fluxstone High-calcium limestone Pulverized limestone for agr Construction aggregate	See Gray and others (1958) for geology, O'Neill (1976) for analysis, and Gray (1952) for structural details of this quarry.
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	do.	Fluxstone Limestone for cement mfg High-calcium quicklime High-calcium limestone Construction aggregate	See O'Neill (1976) for anal- yses, Sims (1968) for descrip- tion and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
York County						
53	Thomasville Stone and Lime Company (Medusa Aggregates Company) P. O. Box 23 Thomasville, PA 17364	Office (800) 521-8299 Site (717) 792-2631	Underground	Kinzers Limestone	Fluxstone Glass manufacturing Cement manufacturing (white) Pulverized limestone for agr Fillers, extenders, whitening	See Cloos (1968) for geologic description of the quarry, O'Neill (1964) for analysis, and Berkheiser (1983) for whiting producers.
LIMESTONE AND DOLOMITE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers Limestone Ledger dolomite	Fluxstone Pulverized carbonates for agr High-calcium quicklime Construction aggregate Railroad ballast	Selectively mines a geologic- ally complex setting. See Berkheiser (1983) for anal- yses and Hole (1968) for de- scription and analyses.

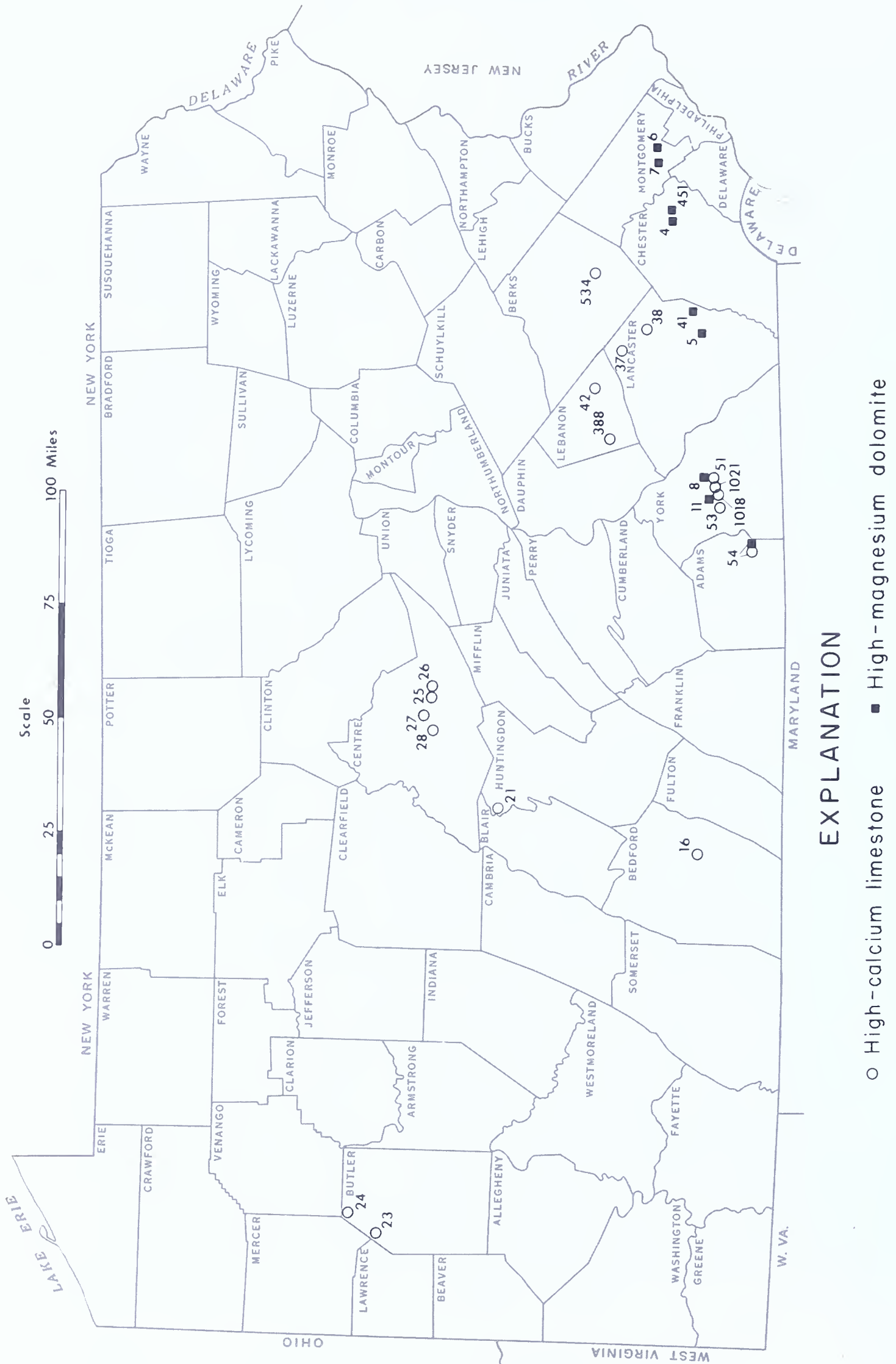


Figure 8. Locations of high-calcium limestone and high-magnesium dolomite mined in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
HIGH-CALCIUM LIMESTONE						
LIMESTONE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers limestone Ledger dolomite	High-calcium limestone High-calcium quicklime Fluxstone Pulverized carbonates for agr Construction aggregate	Selectively mines a geologic- ally complex setting. See Berkheiser (1983) for analy- sis and Hole (1968) for de- scription and analyses.
Bedford County						
16	New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211 Site (814) 652-5121	Quarry Ashcom Oley	Nealmont(?) limestone Linden Hall(?) limestone	Coal-mine rock dust	Also see "Construction Aggregate" and "Agricultural Minerals."
Berks County						
534	Eastern Industries, Inc. R. D. 1, Box 265 Oley, PA 19547	Office (215) 395-5811 Site (215) 689-9551	Quarry Oley	Annaville limestone	High-calcium products Cement manufacture Construction aggregate	Selective mining for high-Ca. Averages about 92% calcium carbonate. See O'Neill (1964) for anal., MacLachlan (1983) for geology, and Smith (1977).
Blair and Huntingdon Counties						
21	Narehood Limestone Company (New Enterprise Stone and Lime Co.) P. O. Box C Tyrone, PA 16686	Office (814) 766-2211 Site (814) 684-2570	Quarry	Coburn limestone Bellefonte dolomite	Coal-mine rock dust Construction aggregate Pulverized limestone for agr	Selectively mines up to eight formations. Coal-mine rock dust is manufactured from the Linden Hall(?) Formation. See Rones (1969).
Butler County						
23	Allegheny Mineral Corporation (Snyder Associated Companies) P. O. Box 10 Kittanning, PA 16201	Office (412) 548-8101 Plant (412) 794-6911	Quarry Slippery Rock	Vanport limestone	High-calcium limestone Pulverized limestone for agr Fluxstone Coal-mine rock dust Construction aggregate	
24	do.	Office (412) 548-8101 Plant (412) 735-2088	Quarry Harrisville	do.	High-calcium limestone Fluxstone Coal-mine rock dust Pulverized limestone for agr Construction aggregate	See O'Neill (1976) for analysis and thickness.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
HIGH-CALCIUM LIMESTONE (cont.)						
LIMESTONE (cont.)						
Centre County						
25	Marblehead Lime Company P. O. Box 89 Belleville, PA 16823	Plant (814) 359-2773	Quarry and underground Pleasant Gap	Linden Hall limestone	Pulverized limestone for agr High-calcium quicklime High-calcium hydrate lime	Top of the Linden Hall Formation; contains high- calcium Valentine Member. See O'Neill (1964).
26	Warner Company P. O. Box 448 Belleville, PA 16823	Office (215) 667-9700 Plant (814) 359-2313	Quarry Gentzel	do.	High-calcium limes Screenings Pulverized limestone for agr Fluxstone	The top of the Linden Hall Fm. contains the high-calcium Valentine Mbr., which is equivalent to the "Benner." See Berkheiser (1985).
27	do.	Office (215) 667-9700 Site (814) 355-4761	Underground Bell	do.	High-calcium fluxstone High-calcium quicklime High-calcium hydrate lime High-calcium agr material Coal-mine rock dust	Mining the Valentine Member. See Berkheiser (1985). Also see "Gentzel quarry."
28	Con Lime, Inc. P. O. Box 118 Belleville, PA 16823	Office (814) 355-4744	Underground mine	do.	High-calcium limestone High-calcium quicklime Fluxstone for glass Coal-mine rock dust Pulverized limestone for agr	Mining the Valentine Member. Formerly owned by Donta. Miller (1934) summarized the geology of the Nittany Valley and the Valentine limestone.
Lancaster County						
37	Lancaster Lime and Stone Corp. (Eastern Industries, Inc.) P. O. Box 30 930 Pointview Avenue Ephrata, PA 17552	Plant (215) 267-2864	Quarry Schoeneck	Annaville limestone	Fluxstone Cement raw material Acid neutralization	Selectively mines the Myers- town and Ontelaunee for cnst. materials and the Annville for high-Ca products. See Berkheiser (1983) for anal.
38	David M. Burkholder, Inc. (New Enterprise Stone and Lime Co.) R. D. 3 Ephrata, PA 17522	Office (717) 354-4306	Quarry Hinkletown	do.	High-calcium limestone Filler Fluxstone Pulverized limestone for agr	Selectively mines the Ann- ville for high-calcium pro- ducts and the Epler dolomite for construction aggregate.
Lebanon County						
42	Calclite Quarry Division Corson Lime Company P. O. Box 629 201 Prescott Road Lebanon, PA 17042	Office (717) 273-3754	Quarry	Annaville limestone Ontelaunee dolomite	High-calcium limestone Fluxstone Pulverized limestone for agr Construction aggregate	See Gray and others (1958) for geology, O'Neill (1976) for analysis, and Gray (1952) for structural details of this quarry.

Map no.	Name and address	Telephone	Type operation	Formation	Products manufactured	Comments

HIGH-CALCIUM LIMESTONE (cont.)						
LIMESTONE (cont.)						
Lebanon County (cont.)						
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	Annville limestone Ontelaunee dolomite	High-calcium limestone Fluxstone (limestone and dol) Limestone for cement mfg High-calcium quicklime Construction aggregate	See O'Neill (1976) for analyses, Sims (1968) for description and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
York County						
51	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 1	Kinzers limestone	Fillers and extenders	Also see "Construction Aggregate," "Agricultural Minerals," and "Fillers."
53	Thomasville Stone and Lime Company (Medusa Aggregates Company) P. O. Box 23 Thomasville, PA 17364	Office (800) 521-8299 Site (717) 792-2631	Underground	do.	Pulverized limestone for agr Fillers and extenders Fluxstone Glass and cement manufacture Whiting	See Cloos (1968) for geologic description of the quarry, O'Neill (1964) for analysis, and Berkheiser (1983) for whiting producers.
1018	Gold Bond Building Products 501 Hokes Mill Road York, PA 17404	Site (717) 843-0076	Quarry York	do.	Fillers and extenders Whiting	Subsidiary of National Gypsum Co. See Stose and Jonas (1939) for geology and description.
1021	White Pigment Corporation Hull Road Ext. York, PA 17404	Office (802) 483-2388 Site (717) 792-9815	Quarry White Pigment	do.	do.	See Stose and Jonas (1939) for geology and Berkheiser (1983) for whiting characteristics and chemical analysis.
HIGH-MAGNESIUM DOLOMITE						
DOLOMITE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Ledger dolomite Kinzers limestone	High-magnesium dolomite Fluxstone Pulverized carbonates for agr High-calcium quicklime Construction aggregate	Selectively mines a geologically complex setting. See Berkheiser (1983) for analysis and Hole (1968) for description and analyses.

HIGH-MAGNESIUM DOLOMITE DOLOMITE

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
HIGH-MAGNESIUM DOLOMITE (cont.)						
DOLOMITE (cont.)						
Chester County						
4	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 647-4094	Quarry Catanach	Ledger dolomite	High-magnesium dolomite Fluxstone Construction aggregate Pulverized dolomite for agr	
451	Warner Company R. D. 3, Box 10A Malvern, PA 19355	Office (215) 667-9700 Site (215) 644-7100	Quarry Cedar Hollow	do.	High-magnesium lime Construction aggregate Masonry lime	See Miller (1934) for geologic description and chemical analysis.
Lancaster County						
5	Compass Quarries, Inc. 47 McIlvaine Road Paradise, PA 17562	Office (717) 442-4191	Quarry	Vintage dolomite	High-magnesium dolomite Pulverized dolomite for agr Fillers and extenders Construction aggregate	See Miller (1934) under "Bellemont Quarries" for de- scription and chemical analysis.
41	Martin Limestone, Inc. (New Enterprise Stone and Lime Co.) P. O. Box 550 Blue Ball, PA 17506	Office (717) 354-4125 Site (717) 442-4148	Quarry Limeville	Ledger dolomite	High-magnesium dolomite Pulverized dolomite for agr	
Montgomery County						
6	Corson Lime Company Joshua Rd. and Stenton Ave. Plymouth Meeting, PA 19462	Site (215) 828-4300 Site (800) 433-8852	Quarries	do.	High-magnesium dolomite Metallurgical lime Pulverized dolomite for agr Construction aggregate	Reported to contain less than 0.8% silica. See O'Neill (1964).
7	Glasgow, Inc. P. O. Box 248 Glenside, PA 19038	Office (215) 884-8800 Site (215) 279-6840	Quarry McCoy	do.	High-magnesium dolomite Construction aggregate Pulverized dolomite for agr Fluxstone	See Miller (1934) for geo- logical description and chem- ical analysis.
York County						
8	York Stone and Supply Company P. O. Box 1948 Roosevelt Ave. at Fahs St. York, PA 17405	Office (717) 843-0981	Quarry York Stone No. 2	do.	Potential for high-magnesium products	Also see "Construction Aggregate," "Agricultural Minerals," and "Fillers."
11	J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	do.	Refractory products Pulverized dolomite for agr Coal-mine rock dust Fillers Fluxstone	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description of operation.

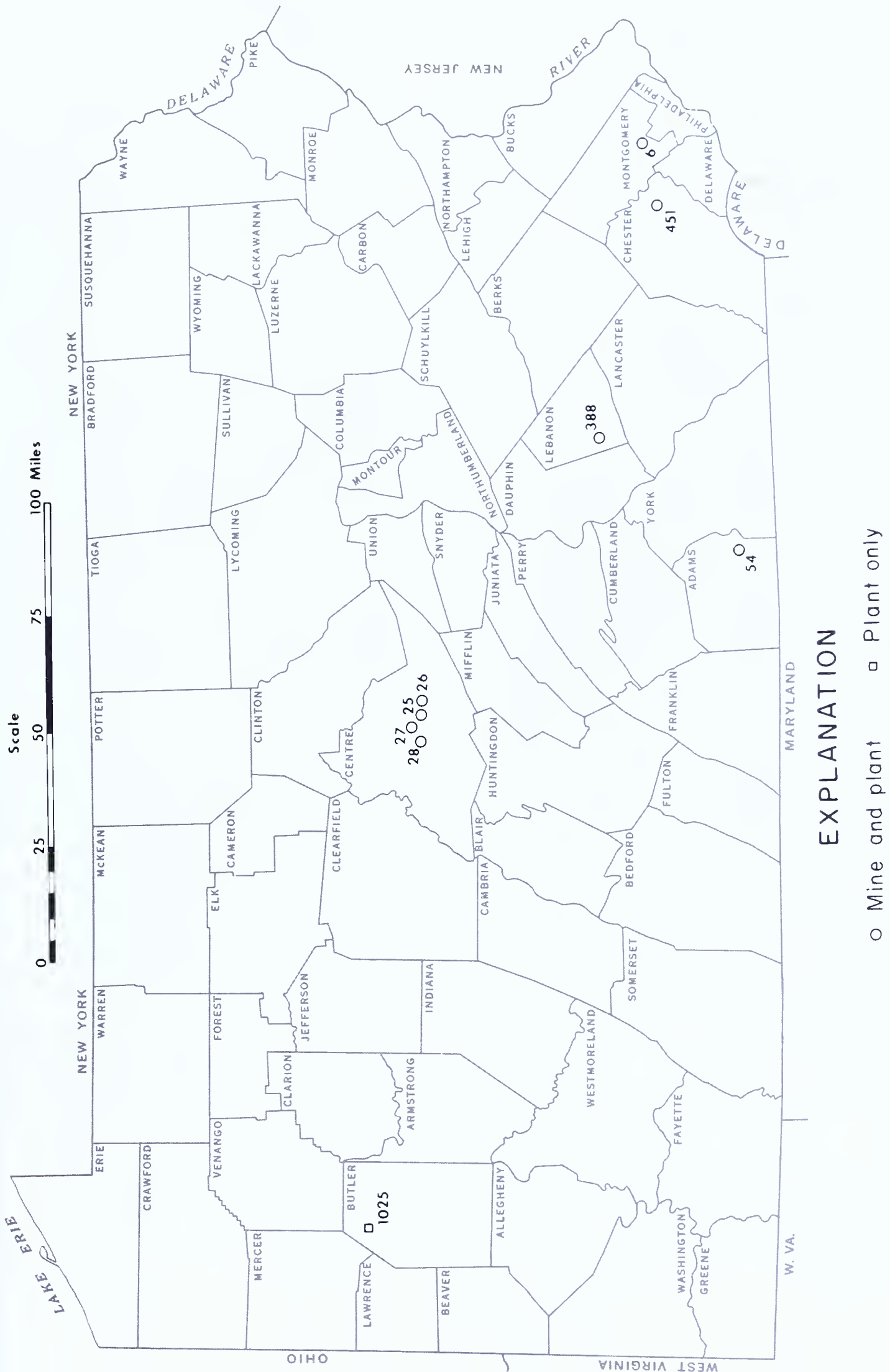


Figure 9. Locations of carbonate rocks mined for lime manufacture in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
LIME						
DOLOMITE						
Chester County						
451	Warner Company R. D. 3, Box 10A Malvern, PA 19355	Office (215) 667-9700 Site (215) 644-7100	Quarry Cedar Hollow	Ledger dolomite	High-magnesium quicklime High-magnesium hydrate lime Mason's hydrate Type S Construction aggregate	See Miller (1934) for geologic description and chemical analysis.
Montgomery County						
6	Corson Lime Company Joshua Rd. and Stenton Ave. Plymouth Meeting, PA 19462	Office (800) 433-8852 Site (215) 828-4300	Quarries	do.	High-magnesium quicklime High-magnesium hydrate lime	See O'Neill (1964) for analysis.
LIMESTONE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers limestone Ledger dolomite	High-calcium quicklime High-calcium limestone Fluxstone Pulverized carbonates for aggregate Construction aggregate	Selectively mines a geologically complex setting. See Berkheiser (1983) for analysis and Hole (1968) for description and analyses.
Butler County						
1025	Mercer Lime and Stone Company Branchton, PA 16021	Office (412) 352-3800	Plant		High-calcium quicklime High-calcium hydrate lime	Lime plant only. No longer mines limestone.
Centre County						
25	Marblehead Lime Company P. O. Box 89 Belleville, PA 16823	Plant (814) 359-2773	Quarry and underground Pleasant Gap	Linden Hall limestone	Pulverized limestone for aggregate High-calcium quicklime High-calcium hydrate lime	Top of the Linden Hall Formation; contains high-calcium Valentine Member. See O'Neill (1964).
26	Warner Company P. O. Box 448 Belleville, PA 16823	Office (215) 667-9700 Plant (814) 359-2313	Quarry Gentzel	do.	High-calcium quicklime High-calcium hydrate lime	Top of the Linden Hall Fm.; contains the high-calcium Valentine Mbr., which is equivalent to "Benner." See Berkheiser (1985).
27	do.	Office (814) 667-9700 Site (814) 355-4761	Underground Bell	do.	High-calcium quicklime High-calcium hydrate lime Fluxstone Pulverized limestone for aggregate Coal-mine rock dust	Mining the Valentine Member. See Berkheiser (1985). Also see "Gentzel quarry."

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>LIME (cont.)</u>						
LIMESTONE (cont.)						
Centre County (cont.)						
28	Con Lime, Inc. P. O. Box 118 Belleville, PA 16823	Office (814) 355-4744	Underground mine	Linden Hall limestone	High-calcium quicklime High-calcium limestone Fluxstone for glass Coal-mine rock dust Pulverized limestone for agr	Mining the Valentine Member. Formerly owned by Dornier. Miller (1934) summarized the geology of the Nittany Valley and the Valentine limestone.
Lebanon County						
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	Annullite limestone Ontelaunee dolomite	High-calcium quicklime High-calcium limestone Limestone for cement mfg Fluxstone (limestone and dol) Construction aggregate	See O'Neill (1976) for analy- ses, Sims (1968) for descrip- tion and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
<u>RAILROAD BALLAST</u>						
ARGILLITE AND HORNFELS						
Berks County						
421	Pottstown Trap Rock Quarries, Inc. 1 Quarry Road Douglassville, PA 19518	Office (215) 326-4843 Site (215) 326-5921	Quarry Douglassville	Brunswick argillite	Railroad ballast Construction aggregate	Very near diabase contact.
Bucks County						
432	Better Materials Corporation Swamp Road and Route 232 Penns Park, PA 18943	Office (215) 598-3152	Quarry Better	Locketong argillite Brunswick shale	Railroad ballast Construction aggregate Mineral filler	See Willard and others (1959) for geology.
Lancaster County						
433	Silver Hill Quarries, Inc. R. D. 1 Narvon, PA 17555	Office (215) 445-7430	Quarry Silver Hill	Hammer Creek argillite	Railroad ballast Construction aggregate	
DIABASE						
Berks County						
445	Warner Company P. O. Box 188 Birdsboro, PA 19058	Office (215) 667-9700 Site (215) 582-8775	Quarry John T. Dyer	York Haven diabase	do.	Traditional source of high- quality railroad ballast.

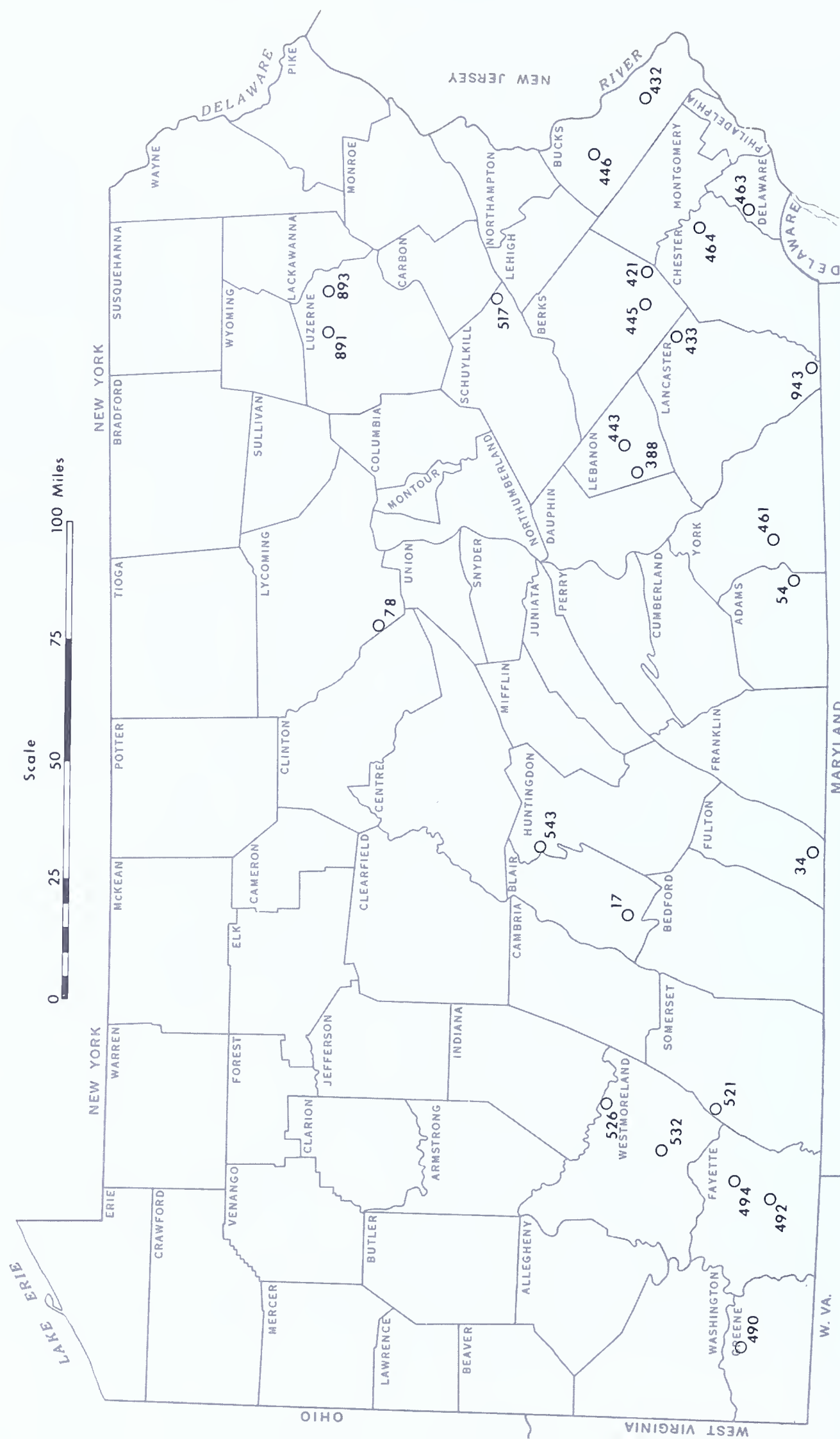


Figure 10. Locations of rocks mined for railroad ballast in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
RAILROAD BALLAST (cont.)						
DIABASE (cont.)						
Bucks County						
446	General Crushed Stone Company P. O. Box 96 Quakertown, PA 18951	Office (215) 253-4271 Site (215) 536-0440	Quarry Rock Hill	York Haven diabase	Railroad ballast Construction aggregate	Traditional source of high-quality railroad ballast.
DOLomite						
Lebanon County						
388	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 867-4441	Quarry Millard	Ontelaunee dolomite	Railroad ballast Construction aggregate Fluxstone (dolomite and ls)	See O'Neill (1976) for analyses, Sims (1968) for description and analyses, and Geyer (1970) for geology. Strips Ontelaunee to mine Annville.
York County						
461	York Building Products Company, Inc. Thomasville, PA 17364	Office (717) 848-2831 Site (717) 792-3260	Quarry Lincoln Stone	Vintage dolomite	Railroad ballast Construction aggregate	For geology see Stose and Jonas (1939).
GNEISS AND RELATED ROCKS						
Chester County						
464	Devault Crushed Stone Company, Inc. P. O. Box 77 Devault, PA 19432	Office (215) 644-2555 Site (215) 644-9250	Quarry	Precambrian granitic gneiss	do.	
Delaware County						
463	General Crushed Stone Company P. O. Box 57 Glen Mills, PA 19342	Office (215) 253-4271 Site (215) 459-2492	Quarry Glen Mills	Baltimore gneiss	do.	See Parrott (1974) for geological description. Felsic to mafic gneiss and calc-silicates.
LIMESTONE						
Fayette County						
492	Marsolino Coolspring Quarry, Inc. P. O. Box X Uniontown, PA 15401	Office (412) 438-4581 Site (412) 437-5200	Quarry and underground Coolspring	Loyalhanna quartzose ls	do.	See Miller (1934).

RAILROAD BALLAST LIMESTONE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
RAILROAD BALLAST (cont.)						
LIMESTONE (cont.)						
Fayette County (cont.)						
	494 F R G Industries, Inc. (Davison Stone Company) McCoy Hollow Road Connellsville, PA 15425	Office (412) 362-4900 Site (412) 626-0400	Quarry Connellsville	Loyalhanna quartzose ls	Railroad ballast Construction aggregate Apprvd antiskid	See O'Neill (1964) for analysis as "Connellsville Blue-stone Company." Hickok and Moyer (1940) described the Loyalhanna and quarries.
Fulton County						
	34 H. B. Mollott Estate, Inc. 328 North Second Street McConnellsburg, PA 17233	Office (717) 485-3171 Site (717) 294-3281	Quarry Charlton	Keyser limestone Tonoloway limestone	Railroad ballast Construction aggregate Pulverized limestone for agr	Also mines the Ridgeley. See "Sandstone."
Greene County						
	490 P. W. Ryan and Sons, Inc. P. O. Box 1079 City Highway 14 Janesville, WI 53547	Office (608) 752-3633	Quarry Drill Run	Washington limestone Greene limestone	Railroad ballast Construction aggregate	Quarry under development. PennDOT and Conrail approvals reported to be pending.
Somerset County						
	521 New Enterprise Stone and Lime Co., Inc. P. O. Box 77 New Enterprise, PA 16664	Office (814) 766-2211	Quarry Bakersville	Loyalhanna quartzose ls	Railroad ballast Construction aggregate Apprvd antiskid	Selectively mines the Loyalhanna and Burgoon Formations. Also see "Sandstone."
Westmoreland County						
	526 Warner Company P. O. Box 173 Blairsville, PA 15717	Office (215) 667-5700 Plant (412) 459-6031	Quarry Torrance	do.	Railroad ballast Construction aggregate Gabion stone	See Miller (1934) and Stone (1932).
	532 Davison Stone Company (Davison Sand and Gravel Company) Chestnut Ridge Whitney, PA 15693	Site (412) 423-3601	Quarry Whitney	do.	Railroad ballast Construction aggregate	See Shaffner (1963) for geology.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
RAILROAD BALLAST (cont.)						
LIMESTONE AND DOLOMITE						
Adams County						
54	Bethlehem Mines Corporation (Bethlehem Steel Corporation) Martin Tower Bethlehem, PA 18016	Office (215) 694-4841 Site (717) 637-7121	Quarry Hanover	Kinzers limestone Ledger dolomite	Railroad ballast Construction aggregate High-calcium quicklime Fluxstone Pulverized carbonates for aggr	Selectively mines a geologic- ally complex setting. See Berkheiser (1983) for analy- sis and Hole (1968) for de- scription and analyses.
Huntingdon County						
543	Warner Company R. D. 1, Box 93A Tyrone, PA 16686	Office (215) 667-9700 Site (814) 684-3180	Quarry Union Furnace	Coburn limestone Bellefonte dolomite	Railroad ballast Construction aggregate	Mining Coburn through Belle- fonte. See Roncs (1969) and Miller (1934).
Lycoming County						
78	P Stone, Inc. P. O. Box 254 Jersey Shore, PA 17740	Office (717) 745-7144 Site (717) 745-7166	Quarry P Stone, Inc.	Loysburg limestone and dol	Railroad ballast Construction aggregate Borrow and general fill	See Fail and others (1977a) for geology. Borrow and general fill is clay.
Schuylkill County						
517	Huss Contracting Company P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Andreas	Bossardville limestone Poxono Island dolomitic ls	Railroad ballast Construction aggregate	See Lash and others (1984) for description and geology.
SANDSTONE						
Luzerne County						
891	American Asphalt Paving Company R. D. 7, Box 95 Shavertown, PA 18708	Plant (717) 696-1181	Quarry Chase	Catskill siltstone	Railroad ballast Construction aggregate Gabion stone	Predominantly red beds.
893	Coolbaugh Sand and Stone, Inc. 32 Railroad Street Scranton, PA 18505	Site (717) 655-5188	Quarry	Pottsville Group sandstone	Railroad ballast Construction aggregate	

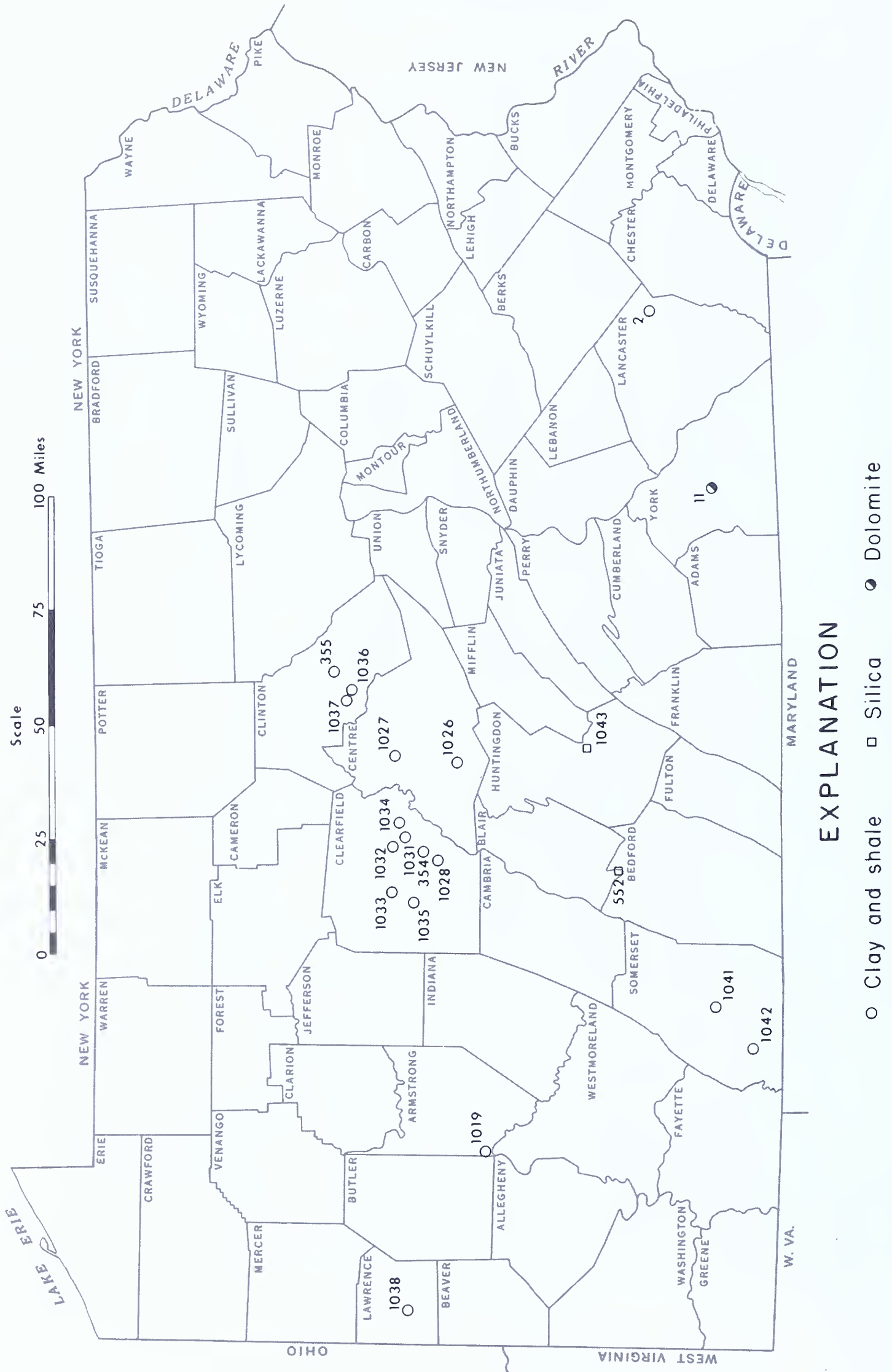


Figure 11. Locations of rocks mined for refractory purposes in Pennsylvania. Map numbers correspond to those on Plate 1.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
RAILROAD BALLAST (cont.)						
SERPENTINITE						
Lancaster County						
943	D. M. Stoltzfus and Son, Inc. Talimage, PA 17601	Office (717) 656-2411 Plant (717) 548-2192	Quarry Cedar Hill	Baltimore Complex serpentine	Railroad ballast Construction aggregate	Stone (1932) discussed some serpentine quarries in Lan- caster County. See Lapham (1960) for a description of mineralogy and geology.
SLAG						
Lebanon County						
443	Sheridan Corporation P. O. Box 9 Lebanon, PA 17042	Site (717) 273-1608	Slag dump Lebanon plant	Man-made slag	Railroad ballast Construction aggregate Roofing slag	Mining blast-furnace slag. Fine aggregate used for block plant. Also see "Roofing Materials."
REFRACTORIES						
CLAY-SHALE						
Armstrong County						
1019	Freeport Brick Company (Allegheny Brick Division) Drawer F Freeport, PA 15030	Office (412) 295-2111	Open pits		Refractory products	No information available on mining activities. No response.
Centre County						
1026	Harbison Walker Refractories (Dresser Industries, Inc.) 2 Gateway Center Pittsburgh, PA 15024	Office (412) 562-6200	Open pit Blair mine	Gatesburg dolomite	Refractory clay	Mines a whitish, kaolinitic, clayey insoluble residue derived from a sandy dolo- mite.
1027	J. H. France Refractories Company Snow Shoe, PA 16874	Office (814) 387-6811	Open pit(s)	Allegheny Group underclay Pottsville Group underclay	Refractory brick Mortar Dry mix	Buys some local hard clays from independent contractors. Most products manufactured from imported bauxites.
Clearfield County						
354	Thompson and Phillips Clay Company P. O. Box 626 Phillipsburg, PA 16866	Office (814) 342-1800	Open pit Sanbourn No. 2	Kittanning underclay	Plastic clay for firebrick	Mining Middle and Lower Kit- tanning underclays. See Edmunds (1968) for geology.

REFRACTORIES
CLAY-SHALE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
REFRACTORIES (cont.)						
CLAY-SHALE (cont.)						
Clearfield County (cont.)						
1028	Harbison-Walker Refractories (Dresser Industries, Inc.) 2 Gateway Centre Pittsburgh, PA 15024	Office (412) 562-6200	Open pit Sanbourn	Pottsville Group underclay	Refractory brick	Mining the Lower Mercer underclay. See Edmunds (1968) for geology and analyses.
1031	do.	Office (412) 562-6200	Open pit Dixon	Allegheny Group underclay	do.	Mining the Clarion No. 1 underclay(?). See Edmunds (1968) for geology and analyses.
1032	do.	Office (412) 562-6200	Underground mine Woodland	Pottsville Group underclay	do.	Mining the Lower Mercer underclay. See Edmunds (1968) for geology and analyses.
1033	North American Refractories Company P. O. Box 56 Curwensville, PA 16833	Office (814) 236-3890	Open pit Deemer No. 1	do.	Refractory brick Mortars Castables	Mining the Lower Mercer underclay. See Edmunds and Berg (1971) for geology and analyses. Company also buys clay.
1034	Yingling Clay Company R. D., Box 382 Morrisdale, PA 16858	Office (814) 342-2548	Open pit Yingling	Clarion underclay Mercer underclay	Refractory clays	See Edmunds (1968) for a discussion and maps of clay and shale resources.
1035	Thomas Brothers Coal Company, Inc. P. O. Box 188 Grampian, PA 16838	Office (814) 236-1632	Strip mine(s)	Pennsylvanian underclays	do.	Intermittent production from various active coal strips. No locations listed.
Clinton County						
355	Fink and Stackhouse, Inc. 2325 Newberry Street Williamsport, PA 17701	Office (717) 323-5102	Open pit strip Farrandsville	Pottsville Group underclays	Cement additive Clay-pipe manufacture Brick manufacture Refractories	Operates various mines Intermittently.
1036	Harbison-Walker Refractories (Dresser Industries, Inc.) 2 Gateway Centre Pittsburgh, PA 15024	Office (412) 562-6200	Open pit Beech Creek	Allegheny Group underclay Pottsville Group underclay	Refractory brick	Possibly mining Lower Kit- tanning clay.
1037	Fink and Stackhouse, Inc. 2325 Newberry Street Williamsport, PA 17701	Office (412) 562-6200 Site (717) 322-5658	Open pit Twin Run	Mercer underclay	Fireclay	Mercer is part of the Potts- ville Group. Operator mines refractory clay under con- tract for Harbison-Walker.

Map no.	Name and address	Telephone	Type operation	Formation Lithology	Products manufactured	Comments
REFRACTORIES (cont.)						
CLAY-SHALE (cont.)						
Lancaster County						
	2 Narvon Products Corporation P. O. Box 58 Narvon, PA 17555	Office (717) 354-4941	Open pit Narvon mines	Chickies kaolinitic clay	Refractory clays Fillers Cement raw materials Agricultural minerals	Mines a siliceous, kaolinitic and mica-rich white clay. See Hosterman (1984) for a brief description and chemical analysis.
Lawrence County						
	1038 Ambrosia Coal and Contracting Co. Edinburg, PA 16116	Office (412) 667-7750	Strip mines Hooge and Kennedy Strip mine Gilmore	Allegheny Group underclays	Refractory clays	Mines the Lower Kittanning and Middle Kittanning, or No. 3 and No. 4, coals and underclay.
Somerset County						
	1041 C. Brant Mining Company R. D. 6, Box 36 Somerset, PA 15501	Office (814) 445-6875	Open pit	Allegheny Group underclay	Clay refractory products(?)	Probably mining either the Brookville or Clarion underclays. See Flint (1965) for geology.
	1042 General Refractories Company R. D. 1 Fort Hill, PA 15540	Office (412) 562-6000 Site (814) 395-3841	Open pit Fort Hill	Pottsville Group underclay	Fireclay	Reported to be mining the Clarion underclay (see Flint, 1965, and O'Neill and others, 1965).
DOLomite						
York County						
	11 J. E. Baker Company P. O. Box 1189 York, PA 17405	Office (717) 848-1501 Site (717) 792-3683	Quarry York	Ledger dolomite	Refractory bricks Fettling stone Gunning materials Pulverized dolomite for aggregate Construction aggregate	See Stose and Jonas (1939) for geology and Hopkins (1985 and in press) for description. Coarsely crystalline dolomite contains <1% silica.
SANDSTONE						
Blair County						
	552 J. L. Hartman Company, Inc. P. O. Box 295 Hollidaysburg, PA 16648	Office (814) 695-1531	Quarry	Tuscarora quartzite	Ganister for silica brick Construction aggregate	See Moore and Taylor (1924). This operation intermittently provides ganister for General Refractories Co. at Claysburg.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>REFRACTORIES (cont.)</u>						
<u>SANDSTONE (cont.)</u>						
<u>Huntingdon County</u>						
1043	Harbison-Walker Refractories (Dresser Industries, Inc.) 2 Gateway Center Pittsburgh, PA 15024	Office (412) 562-6200	Quarry Mt. Union	Tuscarora quartzite	Ganister for silica brick	See Berkheiser (1985, in press) and Moore and Taylor (1924). Presently mining upper fluvial cycles in the formation.
<u>Schuylkill County</u>						
398	Refractory Sand Company, Inc. P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Refractory Sand	Palmerton sandstone	Refractory "pebble" Construction aggregate Sand for golf course traps Mineral wool Cement raw material	See Sevon (1970) and Lash and others (1984) for geology. See Berkheiser (1985, in press) for analysis.
<u>ROOFING MATERIALS</u>						
<u>GRAVEL</u>						
<u>Armstrong County</u>						
562	Glacial Sand and Gravel Company P. O. Box 1022 Kittanning, PA 16201	Office (412) 548-8101	River dredging Bridgeburg plant	Quaternary glacial gravel	Gravel for rubber roof system Construction aggregate	Mapped as outwash valley trains and alluvium (Shepps and others, 1959). Dredging Allegheny River pool 7.
563	do.	Office (412) 548-8101	Open pit Tartown plant	do.	do.	Mapped as outwash valley trains and alluvium (Shepps and others, 1959). Mines two sites, Tartown Flat and Tartown Hill.
<u>Crawford County</u>						
628	Edinboro Gravel Company R. D. 2 Cambridge Springs, PA 16403	Office (814) 398-8111	Open pit	do.	Roofing stone Construction aggregate	Mapped as kames, kame ter- races, kame moraines, and eskers, undifferentiated (Shepps and others, 1959).
<u>Dauphin County</u>						
642	Pennsy Supply, Inc. 1001 Paxton Street Harrisburg, PA 17105	Office (717) 233-4511 Site (717) 834-3710	Open pit Amity Hall	Quaternary glacial outwash Quaternary river alluvium	Roofing gravel Construction aggregate Decorative landscape gravel	Mining an island in the Sus- quehanna River at the con- fluence with the Juniata River.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
ROOFING MATERIALS (cont.)						
GRAVEL (cont.)						
Wyoming County						
844	Land Development Company R. D. 7, Box 95 Shavertown, PA 18708	Office (717) 696-1181 Site (717) 654-0414	Open pit Exeter	Quaternary glacial gravel	Roofing gravel Construction aggregate	
GREENSTONE						
Adams and Franklin Counties						
1022	G A F Corporation Box 0 Blue Ridge Summit, PA 17214	Office (201) 628-3000 Site (717) 794-2184	Quarry Charmian	Catoctin metabasalt	Roofing granules Asphalt stabilizers Asphalt fillers	Some roofing granules are ceramically coated. Also see "Fillers." See Nelson (1968).
SLAG						
Lebanon County						
443	Sheridan Corporation P. O. Box 9 Lebanon, PA 17042	Site (717) 273-1608	Slag dump Lebanon plant	Man-made slag	Roofing slag Construction aggregate Railroad ballast Fine agg for block plant	Mining blast-furnace slag. Also see "Construction Aggregate."
SLATE						
Lehigh County						
1008	Penn Big Bed Slate Company, Inc. P. O. Box 184 Slatingsdon, PA 18080	Office (215) 767-4601 or (215) 432-0638	Quarry Manhattan	Martinsburg slate Pen Argyl Mbr.	Roofing slate Flagging Structural slate Tiles and panels Sills and treads	See Behre (1933) and Berk- heiser (1984 and in press) for a description of the geology and mining.
Northampton County						
1011	Sreebs Slate and Stone Co., Inc. P. O. Box 44 Wind Gap, PA 18091	Site (215) 863-4161	Quarry	do.	Roofing and flooring Structural slate Treads and risers Window sills and mantels Flagging	Mining the Albion Run. Manu- facturer is Williams and Sons Slate and Tile, Inc., Wind Gap. See Behre (1933) for "Albion Superior Quarry."
1012	Anthony Dally and Sons, Inc. P. O. Box 27 Railroad Avenue Pen Argyl, PA 18072	Office (215) 863-4172	Quarry A. Dally & Sons	do.	Roofing slate Dimension stone Billiard slate Blackboard slate Electrical slate	Works five quarries with at least six distinct milling operations in the area. See Behre (1933) and Berkheiser (1984 and in press).

ROOFING MATERIALS SLATE

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
ROOFING MATERIALS (cont.)						
SLATE (cont.)						
Northampton County (cont.)						
1014	Anthony Dally and Sons, Inc. d/b/a Diamond Slate Company P. O. Box 27 Railroad Avenue Pen Argyl, PA 18072	Office (215) 863-4172 Site (215) 863-4172	Quarry Diamond Slate	Martinsburg slate Pen Argyl Mbr.	Roofing slate Billiard table tops Blackboards Structural slate Flagging	Sold by Structural Slate Co., P. O. Box 187, Pen Argyl, PA 18072, phone (215) 863-4141. See Behre (1933) and Berke- heiser (1984 and in press).
1015	Anthony Dally and Sons, Inc. d/b/a Doney Slate Company Box 5 Pen Argyl, PA 18072	Office (215) 863-4172	Quarry Doney No. 1 Quarry Doney No. 2	do.	do.	do.
1016	American Bangor Slate Company (John T. Dally) P. O. Box 27 Pen Argyl, PA 18072	Office (215) 863-4172	Quarry American Bangor	do.	Roofing slate Flooring slate Flagging Structural slate	See Davis and others (1967) for geology.
SPECIALTY CLAY AND SHALE						
CLAY-SHALE						
Armstrong County						
357	Continental Clay Products Company Oak Street P. O. Box 69 Kittanning, PA 16201	Office (412) 543-2611	Underground mine	Allegheny Gp.(?)	Tile Chimney brick Face brick	Probably mines the Lower Kittanning clay and the Clarion clay.
1045	Logan Clay Products Company Drawer 39 Worthington, PA 16262	Office (614) 385-2184 Plant (412) 297-3411	Open pit	Clarion clay and shale	Flue liners Drain tile Structural tile	Mining underclay to the Clarion(?) coal. See O'Neill and Barnes (1979).
Clinton County						
355	Fink and Stackhouse, Inc. 2325 Newberry Street Williamsport, PA 17701	Office (717) 323-5102	Open pit strip Farrandsville	Pottsville Group underclays	Cement additive Clay-pipe manufacture Brick manufacture Refractories	Operates various mines intermittently.
1046	Mill Hall Clay Products 44 Market Street Mill Hall, PA 17751	Office (717) 726-3111	Open pit Castanea mine	Clinton Group shale and clay	Tile and flue liners Agricultural drain tile Sewer pipe	Probably mining the Rose Hill Formation.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>SPECIALTY CLAY AND SHALE (cont.)</u>						
CLAY-SHALE (cont.)						
Cumberland County						
1044	Penn Products Corporation 1369 Swope Drive Boiling Springs, PA 17007		Open pit Blackbird mine	Tomstown clay (residual)	Clay (black, manganiiferous)	Reportedly used in the manu- facture of stoneware. Appar- ently mining the old "Reading Banks" iron-ore pits. See Foose (1945a, b).
Erie County						
644	R & C Gravel Route 2, West Green Road Waterford, PA 16441	Office (814) 796-4104	Open pit	Quaternary glacial clay	Yellow clay Blue clay	Reportedly used for lagoon liner.
Jefferson County						
1047	Brockway Clay Company Box C Brockway, PA 15824	Office (814) 268-3715	Open pit Brockway Clay Co.	Lower Kittanning clay	Sewer pipe Flue lining	Number 3 of Allegheny Group. See Glover and Bragonier (1978) for geology and analysis.
Northumberland County						
271	Bowman J. Ulrich, Jr., and Sons 200 Liberty Street Watsonstown, PA 17777	Office (717) 538-2380	Open pit B.J. Ulrich & Sons	Mahantango shale	Raw material for coatings, brake linings, and driveway sealers Fillers and extenders Borrow and general fill	See Fail (1979) for geology.
<u>SPECIALTY SAND</u>						
SANDSTONE						
Franklin County						
876	Mount Cydonia Sand (New Enterprise Stone and Lime Co.) P. O. Box M Fayetteville, PA 17222	Office (717) 264-4178 Site (717) 352-3411	Quarry Plant 1	Antietam sandstone and qzt	Colored sands - various Construction aggregate	Mines weathered friable vari- colored to white sandstone. See Berkheiser (1985, in press) for analysis, and Fauth (1978b) for descrip-
Huntingdon County						
1	Pennsylvania Glass Sand Corp. P. O. Box 187 Berkeley Springs, WV 25411	Office (304) 258-2500 Site (814) 542-2561	Quarry Keystone	Ridgeley sandstone	Sand for glass, sandblasting, enamel, abrasives, fillers, filtration, pottery. Also fire sand, engine sand, foundry and molding sand.	Mines the "Oriskany" sand- stone. See Berkheiser (1985, in press) for analysis and Fettke (1919) for descrip- tions.

Map no.	Name and address	Telephone	Type operation Name operation	Formation Lithology	Products manufactured	Comments
<u>SPECIALTY SAND (cont.)</u>						
SANDSTONE (cont.)						
Monroe County						
904	Eastern Industries, Inc. Kunkletown, PA 18058	Office (215) 395-5811 Site (215) 381-3122	Open pit Kunkletown	Palmerton sandstone	High-silica pebbles Construction aggregate	Reported to contain 97% silica. Could be used for cement and refractory manu- facture. See Berkhelser (1985, in press).
Schuylkill County						
398	Refractory Sand Company, Inc. P. O. Box 277 Tuscarora, PA 17982	Office (717) 668-0559 Site (717) 386-4193	Quarry Refractory Sand	do.	Refractory sand Sand for golf course traps Construction aggregate Mineral wool Cement raw material	See Sevon (1970) and Lash and others (1984) for geology. See Berkhelser (1985, in press) for analysis.

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PENNSYLVANIA GEOLOGICAL SURVEY
Mineral Industry Survey
P. O. Box 2357
Harrisburg, PA 17120

If the name and address of your operation are incorrect as shown on label, please
make correction here..... 

Name _____

Address _____

City _____ State ____ ZIP _____

Corporate headquarters:

Company Name _____

Address _____

City _____ State ____ ZIP _____

Phone: (_____) _____

Name of quarry or mine: _____

Type: Open pit ____ Underground ____ Other _____

Location of producing operation: County _____

Township _____ Road _____

Nearest town or major intersection _____

Distance & direction from operation to this town or intersection:

Phone number at operation: Area Code: (_____) _____

Names of rock-types: (include formation name if possible)

(examples: Annville Limestone, Vanport Limestone, river gravel, reed peat)

Products produced: (please include any appropriate specifications)

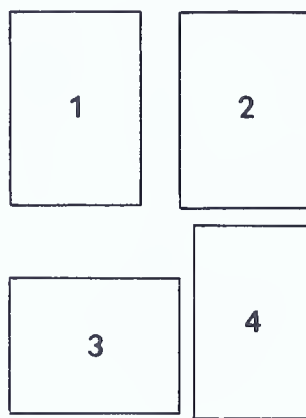
(examples: ag-lime, PennDOT-approved coarse aggregate, railroad ballast)

Is there anything else we should know that might assist your marketing?

Please enclose any non-confidential data or promotional brochures.

Thank you for your cooperation.

INDEX TO PHOTOGRAPHS ON BACK COVER

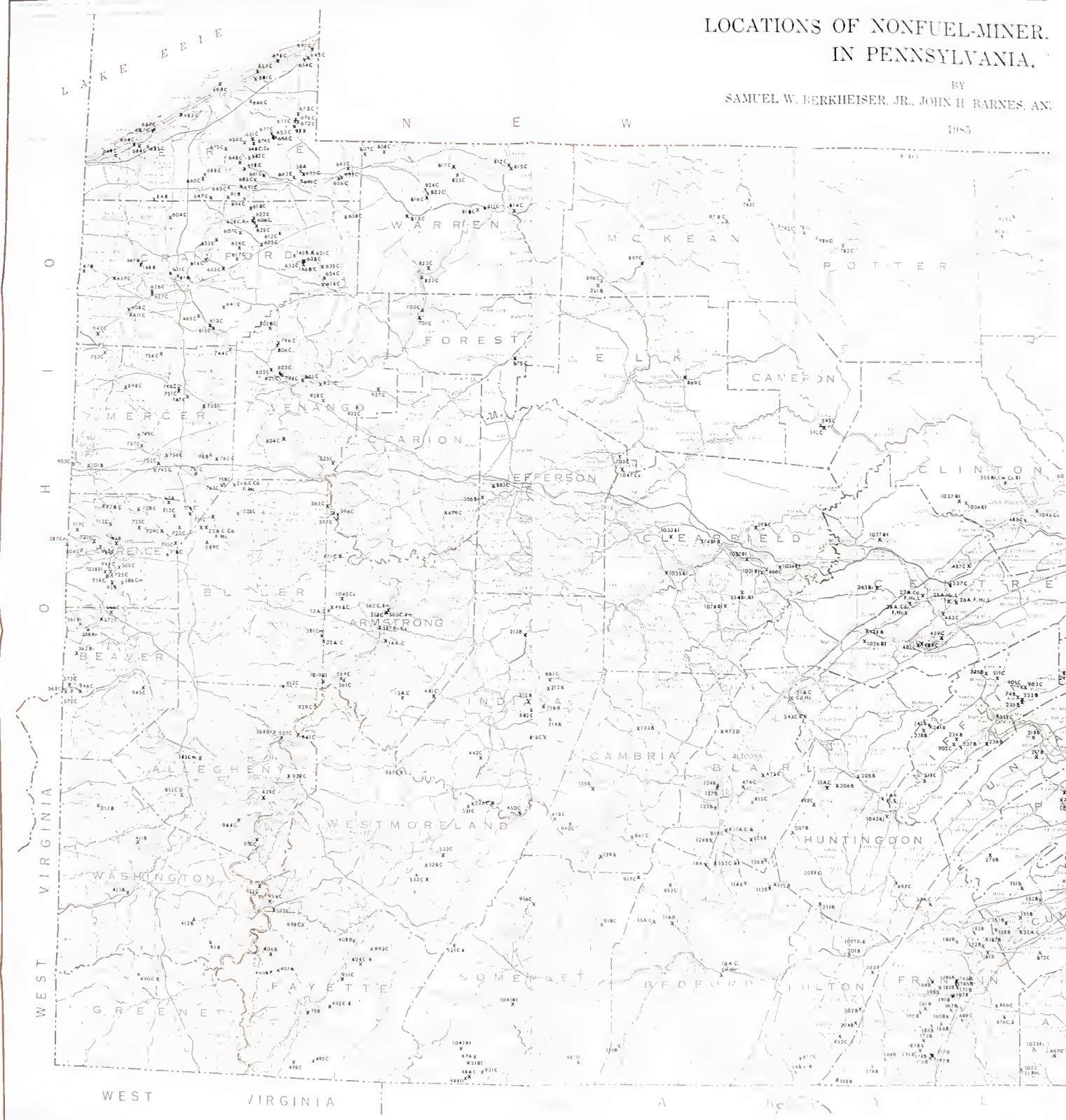


1. One of Anthony Dally and Sons' slate quarries in Northampton County, showing the rhythmic 12-foot-thick mining benches. Pennsylvania is a leading slate-producing state and one of the few that can produce electrical and billiard slates.
2. Pennsylvania is a leading producer of kiln products, such as cement, lime, and basic refractories, manufactured from carbonate (limestone and dolomite) rocks. A Warner Company kiln in Bellefonte, Centre County, symbolizes the pioneering spirit of this industry in the Commonwealth.
3. Glacial Sand and Gravel Company's "Big Elmer," a clam-shell dredge mining high-quality, high-friction sand and gravel in the Allegheny River, pool 8.
4. In today's world of synthetics and mass-produced products, hand-crafted roofing slates are unmatched for appearance and durability.

LOCATIONS OF NONFUEL-MINER. IN PENNSYLVANIA.

BY
SAMUEL W. BERKHEISER, JR., JOHN H. BARNES, AND

1985



Base on the 1980 geologic map of Pennsylvania.
Copyright 1985 by the Pennsylvania Department of Environmental Protection.

EXPLANATION OF PRODUCER DESIGNATIONS

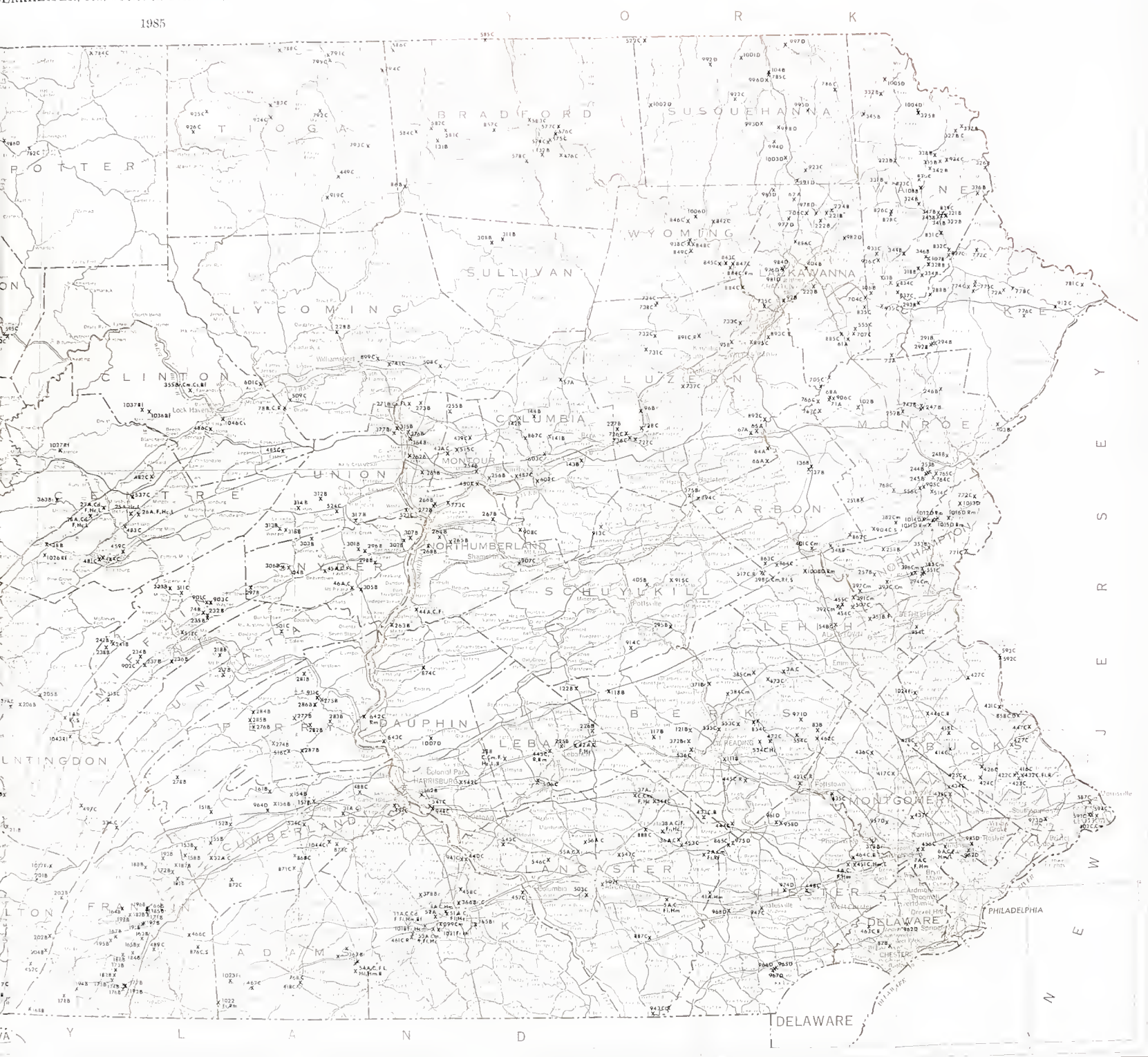
- | | |
|--|----------------------------|
| 24 Map number of individual mineral producer | F Fillers |
| A Alluvium | F Fluorspar |
| A Agricultural minerals | H High calcine limestone |
| B Borrow and general fill | H High magnesium dolomite |
| B Bricks (construction) | L Lignite |
| cm Cement raw materials | R Railroad ballast |
| ca Coarse rock dust | Re Refractories |
| c Construction aggregate | Rm Roofing materials |
| D Dimension stone | S Specialty sand |
| | C Specialty clay and shale |

Scale 1:500,000
NAD 83 datum

MAPS OF NONFUEL-MINERAL PRODUCERS IN PENNSYLVANIA, 1984

BY
BERKHEISER, JR., JOHN H. BARNES, AND ROBERT C. SMITH, II

1985



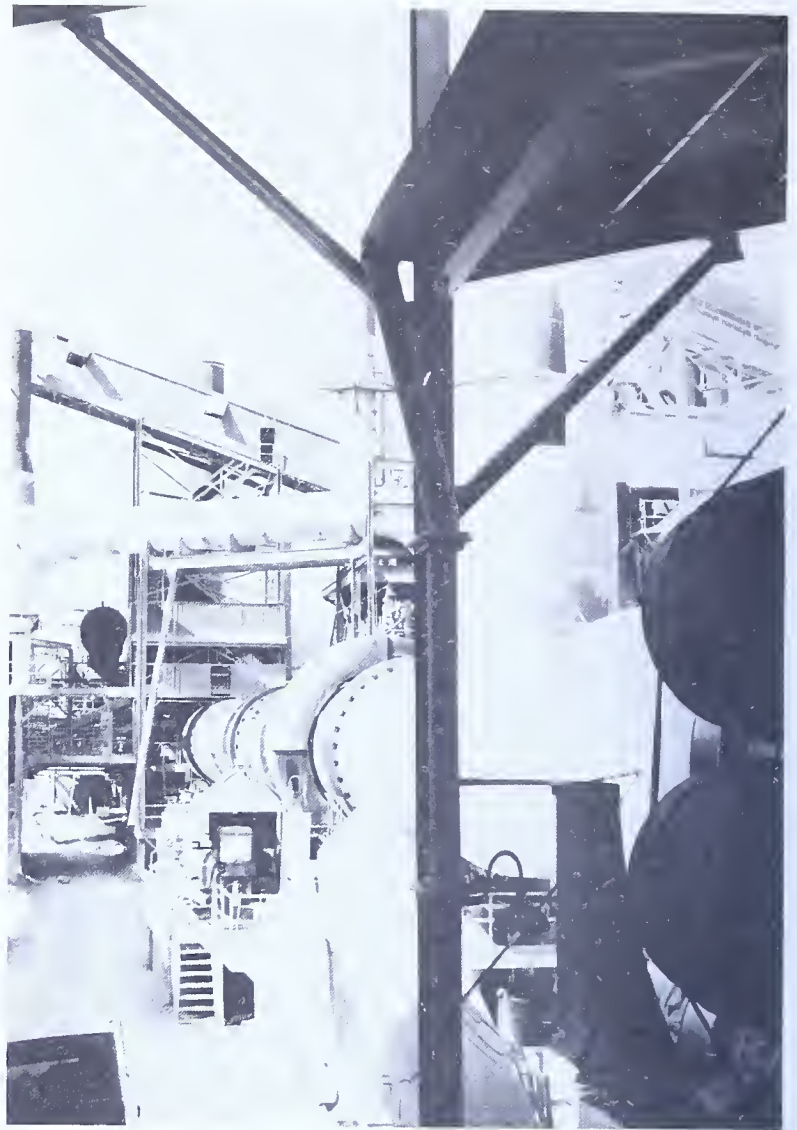
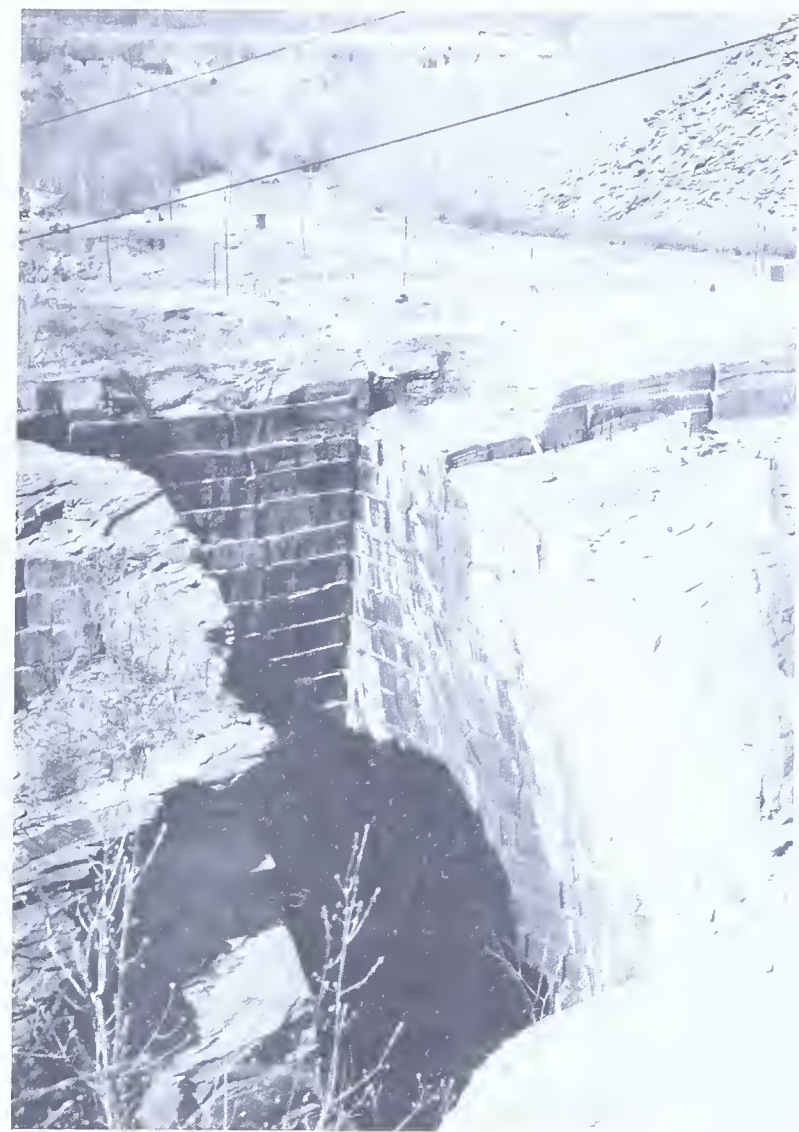
SYMBOLS ON BASE MAP

- ☆ State capital
- Interstate highway
- U.S. highway
- State highway
- Other principal roads
- County boundary
- Bullup area shown for towns over 10,000 population

POPULATION KEY

- PHILADELPHIA more than 500,000
- SCRANTON 50,000 to 500,000
- UNIONTOWN 10,000 to 50,000
- CHICAGO 5,000 to 10,000
- Other towns less than 5,000

Populations indicated by size of letters



*"If it does not grow...
it is mined."*

